

656
H97C
Cop. 2

The Courses of the Ohio River

Thomas Hutchins

Class.

Book No.



25027

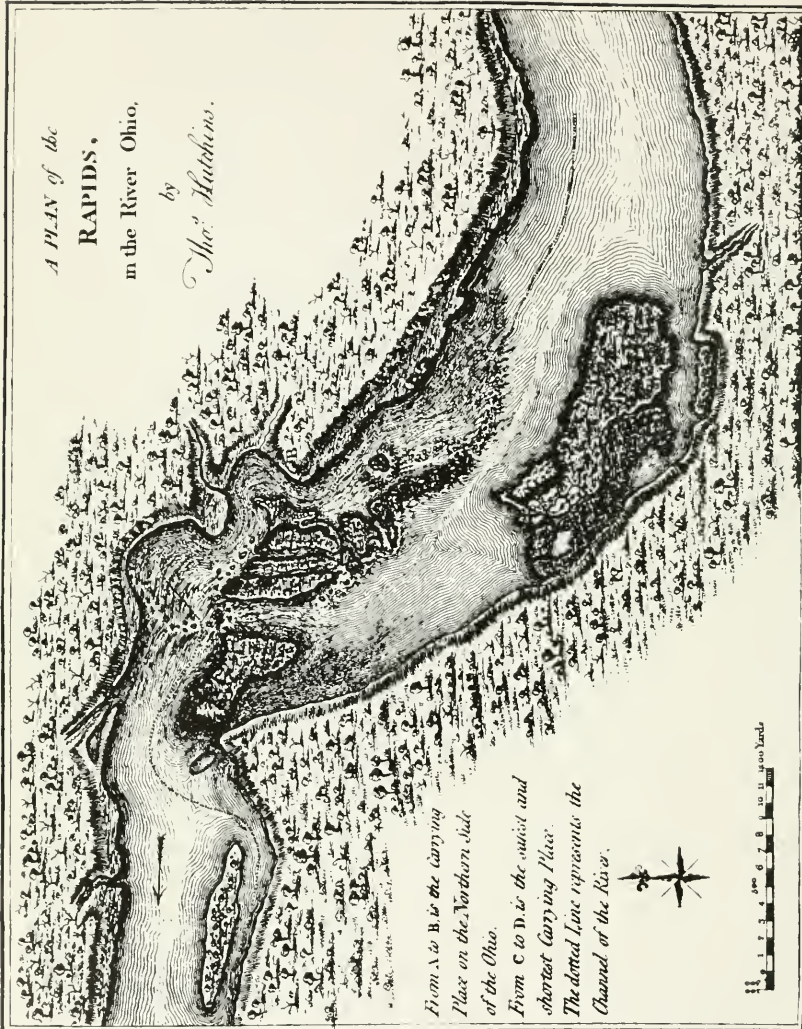
750
5-

Summit 12000 ft
1-1
154483



ILLINOIS HISTORICAL SURVEY

*A PLAN of the
RAPIDS,
in the River Ohio,
by
Thos.^s Hutchins.*



THE COURSES OF THE OHIO RIVER

taken by

Lt. T. HUTCHINS

Anno 1766

and

Two Accompanying Maps

Edited by

BEVERLY W. BOND, JR.

*Curator, Historical and Philosophical Society of Ohio,
and Professor of History, University of Cincinnati*



Cincinnati

HISTORICAL AND PHILOSOPHICAL SOCIETY OF OHIO

1942

PUBLICATIONS OF THE
HISTORICAL AND PHILOSOPHICAL SOCIETY OF OHIO
1942

Sl. Hist. Soc. 5 Feb 60 Reprinted

25027

To the Memory of
L. BELLE HAMLIN,
for many years the loyal and
efficient Librarian of the Society

Contents

	PAGE
Introduction	11
<i>Courses of the Ohio River, 1766, Thomas Hutchins</i>	17
<i>Map of the Ohio River, 1766, Captain Harry Gordon</i>	75
<i>Table of Distances from Fort Pitt to the Mouth of the Ohio, 1766, Captain Harry Gordon</i>	77
<i>Map of a Tour from Fort Cumberland North Westward etc. 1762, Thomas Hutchins</i>	79
<i>Explanations and Table from Hutchins' Map, 1762</i>	81
<i>Itinerary of a Tour from Fort Cumberland North Westward etc. 1762, Thomas Hutchins</i>	85

Illustrations

Frontispiece, A Plan of the Rapids, Thomas Hutchins.

	OPPOSITE
<i>Pencil Sketches, from Hutchins' Ms. Courses of the Ohio River, 1766:</i>	PAGE
1. Mouth of the Little Miami River.....	45
2. Mouth of the Kentucky River.....	50
3. To illustrate Course "S26W".....	51
4. Mouth of the Tallow (Salt) River.....	55
5. To illustrate Course "S79W".....	59
6. To illustrate important stretches, Courses "S52½W" to "S66½W".....	62
7. To illustrate channel, Courses "S40W" to "W2½W".....	63
8. To illustrate channel, Courses "S84½W" to "S56W".....	65
9. To illustrate channel, Courses "S33½W" to "S13E".....	66
10. To illustrate especially difficult channel, Courses "S40W" to "S19W".....	71
11. Mouth of Cherokee (Tennessee) River.....	72

Introduction

The three manuscripts printed in this volume mark an important advance in the cartography of the Old Northwest. Following La Salle's journey in 1669 down the Ohio as far as the Falls at Louisville, there were many other explorations, until by the middle of the Eighteenth Century, Lewis Evans' map was able to give the general location of the river.¹ But there were still many inaccuracies, and it was evident that an exact survey of the twisting channel was necessary if there was to be really extensive transportation upon the eleven hundred and sixty-odd miles of this waterway from Fort Pitt to the Mississippi. This need Thomas Hutchins met in his manuscript *Courses of the Ohio River*, which is now in the Huntington Library.² Based upon it was the *Map of the Ohio River* by Captain Harry Gordon in 1766, now in the Library of Congress, and the first known map of the Ohio which gives accurate details.³ Supplementing Captain Gordon's map, the manuscript map by Hutchins in 1762, gives the geographical outline of the Ohio region and Michigan. The scope of this map, which also is in the Huntington Library, is sufficiently indicated by the lengthy legend; *A Tour from Fort Cumberland North Westward round part of the Lakes Erie, Huron, and Michigan, including part of the Rivers St. Joseph, the Wabash and Miamis, with a Sketch of the Road from thence by the Lower Shawnee Town to Fort Pitt, 1762.*⁴

Of Captain Harry Gordon little is known, except that he was an officer in the British army, and was chief engineer of the Western Department in 1766. Thomas Hutchins, however, was one of the most important figures in the post-Revolutionary American occupation of the Old Northwest.⁵ Appointed geographer of the United States in 1781, he put the Ordinance of 1785 into effect by his surveys of the Geographer's Line and the Seven Ranges. The successful completion of this important work would have been impossible without Hutchins' earlier experience in the British service. Coming first to the Ohio Valley as a lieutenant of the Pennsylvania militia, in Forbes' campaign against Fort Pitt, at the end of hostilities he made Fort Pitt his headquarters, and probably in

1. Lewis Evans, *Map of the Middle British Colonies* (Philadelphia, 1755), Map Division, Library of Congress; L. H. Gipson, *Lewis Evans* (Philadelphia, 1939), 55-72, 171-175, 231.

2. *The Courses of the Ohio River taken by Lt. T. Hutchins anno, 1766*, Huntington Library, Mss. H M 642.

3. *Map of the Ohio River*, by Captain Harry Gordon, 1766, Map Division, Library of Congress.

4. A Manuscript Map of a *Tour from Fort Cumberland to Fort Pitt*, etc. 1762, Thomas Hutchins, Huntington Library Mss. H M 1091. This map has already been reproduced, but on so small a scale as to be of little real value. William L. Jenks, *The "Hutchins" Map of Michigan*, *Michigan History Magazine*, 10, (Lansing 1926), 363; *Historical Atlas of the Great Lakes and Michigan*, prepared by Louis C. Karpinski (Lansing, 1931).

5. F. C. Hicks, *Biographical Sketch of Thomas Hutchins*, in reprint of Hutchins, *Topographical Description* (Cleveland, 1904), 7-66.

1762 received a commission as ensign in the regular British army. Up to the outbreak of the Revolution, as an assistant engineer, he made many surveys in the Western region, and took extensive journeys upon official missions to the Illinois and Mississippi country, and even to Pensacola. Hutchins had an important part, also, in Bouquet's expedition in 1764 against the Delaware and Shawnee Indians. Altogether, when he drew up his *Courses of the Ohio River* in 1766, Hutchins was well acquainted with the topography of the valley and the area to the northward.

The importance of Hutchins' surveys was appreciated by the British officials in charge of the Western country. General Gage, commander-in-chief of the forces in America for the decade, 1763-1773, commended his work in the highest terms, both as a surveyor and as a confidential agent. His reports, Gage considered, were without bias and to be depended upon. His surveys, Gage had found, after comparing them with those of other officials, were exact, and his observations were judicious and reliable.⁶ Of the work of Captain Harry Gordon, Gage wrote with equal approval. Especially did he mention Gordon's description of the country, and his list of the distances between important points, as he had recorded them on his trip down the Ohio in 1766. Altogether, according to General Gage, Gordon's work had been done, "with more accuracy than by any other person."⁷

Hutchins' *Courses of the Ohio River*, 1766, is the first known hydrographic survey of the river. Describing each course, it gives the direction, the time required for navigation, the speed of the current, and other important details of these separate stretches. The data Hutchins secured during an expedition down the river which started from Fort Pitt (Pittsburgh), June 18, 1766. Its main purpose was to conciliate and to build up trade with the Indians of the Ohio and Mississippi valleys, and George Croghan, the well-known Pennsylvania Indian trader, was in command.⁸ Accompanying him were Captain Harry Gordon and Ensign Thomas Hutchins, the two of them under orders from General Gage to map the courses of the Ohio, and to take the latitude and longitude of the important points along the route. George Morgan, of the Philadelphia firm of Baynton, Morgan, and Company, went along too, with large supplies of goods for the Indian trade. Also, there were about one hundred Iroquois and a considerable number of Delawares and Shawnees, the entire party with its baggage filling seventeen canoes.⁹

Croghan and his party reached the mouth of the Ohio, August 7, approxi-

6. Gage to Hillsborough, October 1, 1771, and to Dartmouth, March 3, 1773, *Correspondence of General Thomas Gage*, C. E. Carter, ed. (New Haven, 1931), I, 309-310, 347.

7. Gage to Shelburne, February 22, 1767, *Ibid.*, 121; *Post*, 77.

8. Instructions to George Croghan from Thos. Gage, April 16, 1766, C. A. Hanna, *The Wilderness Trail* (New York and London, 1911), 2, 38-39.

9. Gage to Shelburne, November 11, 1766, and February 22, 1767, *Gage Correspondence*, Carter, ed. II, 113, 121-122; A. T. Volwiler, *George Croghan and the Westward Movement* (Cleveland, 1926), 195.

mately seven weeks from Fort Pitt, the leisurely trip affording Hutchins ample opportunity to undertake a thorough hydrographic survey of the entire length of the river. According to Hutchins' usual custom, the *Courses of the Ohio River* was not a mere detailed survey, but it included many additional items, such as; the depth of the stream, striking formations in its bed and on its banks, the vegetation on the banks, and the mouths of important tributaries, and even the location of good camping sites. Frequently, on the margin of the manuscript, Hutchins scribbled pencil sketches to show in detail the topography of the mouths of important streams, of dangerous channels, and of the larger islands. For the most difficult section of the Ohio, the Falls, Hutchins drew an elaborate map which was based upon the surveys and observations he had made during the four days' stay of Croghan and his party at this strategic point. This map supplementing the many details in the *Courses* regarding the channel and the river bed at the Falls, was of greatest importance in opening up this difficult stretch of water to navigation.¹⁰

Hutchins' surveys were of course the basis of Captain Harry Gordon's *Map of the Ohio River*, the first really accurate map of the Ohio with its main courses in detail, and its principal tributaries. Supplementing this map, as well as Hutchins' *Courses* is Captain Gordon's *Journal* of the expedition down the Ohio which has already been published.¹¹ George Croghan, too, in a rather elaborate report that was concerned chiefly with the objects of his own mission, incidentally gave interesting details which supplement the *Courses*.¹² Also, a brief journal which Hutchins kept during a journey down the Ohio in 1768, gives much illustrative material.¹³

The third manuscript in this volume, Hutchins' map of a *Tour from Fort Cumberland North Westward*, etc. in 1762, was compiled from varied sources. The route from Fort Cumberland to Fort Pitt, Hutchins doubtless copied from one of many available maps. The route from Fort Pitt to Venango and Presque Isle he doubtless drew from observations during a journey in July, 1760, shortly after he established his headquarters at Fort Pitt.¹⁴ But the most important feature of this map is the route of an extensive tour by Hutchins in 1762.¹⁵ Traveling at first by land, Hutchins and his party took the trail from Fort Pitt to Sandusky. Thence by water they skirted along the shores of Lakes Erie and Huron, past Detroit and Mackinaw. From Mackinaw they paddled along the

10, *Post*, 54 (note 34); also see the pencil sketches reproduced from Hutchins' manuscript, *Ante*, 9.

11, *Travels in the American Colonies*, N. D. Mereness, ed., (New York, 1916), 464-473. Extracts from Gordon's *Journal* are found also in Thomas Pownall, *Topographical Description . . . of the Middle British Colonies* (London, 1776), Appendix IV, 2-6.

12, Croghan to Gage, January 16, 1767, *Ill. Hist. Coll.*, XI (Springfield, 1916), 487-494; Volwiler, *George Croghan*, 194-197.

13, Thos. Hutchins, *Journal from Fort Pitt to the Mouth of the Ohio, 1768*, *Indiana Historical Society Publications*, 2 (Indianapolis, 1895), 418-421.

14, *A Journal of a March from Fort Pitt to Venango, and from thence to Presque Isle, July 1760. Pennsylvania Magazine of History*, 11 (Philadelphia, 1878), 149-153.

15, Jenks, *The "Hutchins" Map of Michigan*, *Mich. Hist. Magazine*, 10, 358-373; *Post*, 79ff.

eastern shore of Lake Michigan, with a side trip to Puans Bay (Green Bay) and Fort St. Xavier (Green Bay, Wis.), and then to Fort St. Joseph on the St. Joseph River. From there, the party travelled again overland to Fort Miami (Fort Wayne), with a side trip down the Wabash Valley to Fort Ouiatenon, just below present-day Lafayette, Indiana. Returning to the main route, they resumed the trail to the Lower Shawnee Town (Portsmouth, Ohio), and then to Fort Pitt. With the accuracy characteristic of all Hutchins' work, this map indicated the chief streams, and often even the width of the crossings. The *Remarks* which were jotted down on the map were doubtless for use in the *Journal* Hutchins kept of his tour in 1762. Of special interest is his estimate of the warriors in the Indian tribes on the way. Obviously any such list must be regarded with much suspicion, but Hutchins' well known accuracy lends considerable weight to this particular one. Twelve years later, in making up the more extensive list of Indian warriors in his *Topographical Description*, Hutchins apparently checked this earlier list with the one compiled in 1765 by George Croghan who was in a peculiarly favorable position to make such an estimate.¹⁶

Hutchins used the material gathered in his journeys down the Ohio, and in the Ohio and Michigan areas, as well as the three manuscripts in this volume, in the composition of his *Topographical Description* with an accompanying map. This work, which was published in London in 1778, gained quick recognition as the authoritative guide to the Ohio Valley and the nearby areas. In post-Revolutionary days, along with the different journals, maps, and reports which Hutchins had compiled in the pre-Revolutionary era, it became of very great importance in the extension of American power and settlement in the Ohio Valley. One of the practical means through which this influence was exerted was Cramer's *Navigator or the Trader's Useful Guide in Navigating the Monongahela, Allegheny, Ohio and Mississippi Rivers*.¹⁷ The lengthy title is sufficient indication of the scope of this early Western Baedeker, which was soon used by the immigrant even more extensively than by the trader. The earliest editions merely gave printed directions with regard to the channel, noting the chief bars and the like and the islands. But in later editions there were detailed sectional maps of the Ohio River which were evidently based directly upon Hutchins' *Courses* and Gordon's *Map*.

In collecting the material for this volume, the editor wishes to acknowledge his obligation to Dr. Max Farrand, former Director of the Huntington Library, for helpful suggestions, and for permission to reproduce *Hutchins' Courses of the Ohio River, 1766*, and his map of the *Tour from Fort Cumberland, etc., in 1762*. Likewise, Colonel Lawrence Martin of the Map Division, Library of Congress,

16. Thomas Hutchins, *A Topographical Description of Virginia, Pennsylvania, Maryland, and North Carolina* (London, 1778), Appendix III, 65-67; *Croghan's Journal 1765, Early Western Travels*, R. G. Thwaites, ed., I (Cleveland, 1926), 167-169; *Post*, 83.

17. Zadock Cramer, *The Navigator* (Twelve editions, Pittsburgh, 1801-1824).

has shown much interest in this undertaking, and has given permission to reproduce Gordon's *Map of the Ohio River*. The Ohio River Division of the United States Government, also, has given very substantial aid through General E. H. Marks, the former Division Engineer, and Colonel C. L. Hall, the present Division Engineer. Lastly, Miss Eleanor Wilby, librarian of the Historical and Philosophical Society of Ohio, and her assistants have given constant and intelligent aid without which the publication of this volume would have been impossible.

BEVERLEY W. BOND, JR.

University of Cincinnati

Courses of the Ohio River
taken by T. Hutchins Anno 1766,
Huntington Library Mss. H M 642.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	Wednesday the Eighteenth June 1766					Embarked			from Fort Pitt
1	N79W	.....	6	 $\frac{1}{2}$	128	.....	D ^o	.....	A High Ridge on the left this Course
2	N36W	.....	9	 $\frac{3}{4}$	192	.....	D ^o	.....	On the right Bottom Land, on y ^e left a Ridge
3	N3W	.....	6	 $\frac{1}{2}$	128	.....	D ^o	.....	At 504 Y ^{ds} Chartiers Island on the left
4	N22W	.....	17	1	216	.....	D ^o	.....	At 1344 Y ^{ds} the end of the Island opposite Chartiers Creek 25 Y ^{ds} wide, on the left is a high Steep Rock a few Yards below y ^e Creek. The River here 400 Y ^{ds} Broad. Strong Current
5	N43W	.....	51 $\frac{1}{2}$	4 $\frac{3}{4}$	292	.....	D ^o	.....	840 Y ^{ds} an Island on left, a Steep Ridge on the Right and level land on the left of the River $\frac{1}{4}$ Mile wide, bounded by a Ridge, its very shallow here when the River is Low and Swift Water near the right Hand Shore
6	N65W	.....	34	3	432	.....	D ^o	.....	A Ridge on the Right
7	N59W	.....	10	 $\frac{3}{4}$	360	.....	D ^o	.....	At 1512 Y ^{ds} Lower end of long Island
8	N60W	.....	16	1 $\frac{1}{2}$	48	.....	D ^o	.....	level land on the right, a Ridge on left
9	N21W	.....	12	1	256	.....	D ^o	.....	
10	N50W	.....	10	 $\frac{3}{4}$	360	.....	D ^o	.....	At 504 Y ^{ds} a Small Island on the left, level land on right, a Ridge on the left, at End of the Course a Creek on left 12 Y ^{ds} wide

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid- dling	Slow	
11	N23W level & Rich on both sides of the River, for near ¼ Mile back, when they are bound by Ridges	.....	12.....	1.....	256.....	.....	D ^o.....	.....	
12	N3W on the left side of the River where the Ridge comes close to the bank; on the Right level for some distance	.....	11.....	1.....	84.....	.....	D ^o.....	.....	At 1344 Y ^{ds} a large Run
13	N9E Town on the right hand side of the River, 18 the Land here is level, with high banks, on both sides of the River for 2 or three Hundred Yards an Island on the left	.....	39.....	3.....	392.....	.....	D ^o.....	.....	At 1680 Y ^{ds} the Logs
14	N10W the Island, and at the end of the whole Course came to the end of and Island that began Just where the other ended.	.....	51.....	4¾.....	208.....	.....	D ^o.....	.....	At 1680 Y ^{ds} to End of
15	N30W	.....	3.....	¼.....	64.....	.....	D ^o.....	.....	
16	N1W	.....	15.....	1¼.....	320.....	.....	D ^o.....	.....	At 1176 Y ^{ds} a large Run on the left
17	N40W	.....	13.....	1.....	424.....	.....	D ^o.....	.....	A Small bottom on each side of y ^e River
18	S85W	.....	3.....	¼.....	64.....	.....	D ^o.....	.....	
19	S67W Beaver Creek on the right One Hundred & twenty Yards wide. A Ridge all this Course on the left, level upland on the right with high banks	.....	24.....	1¼.....	72.....	.....	D ^o.....	.....	At 336 Y ^{ds} to Big
20	S50W Ridge close on the Right, at a Mile bottom land on the left, and a Ridge on the Right, at 2464 Yards a Creek on the left twenty Yards wide, which runs thr'o level rich bottom	.....	25.....	2½.....	.....	D ^o.....	.....	.....	At 880 Yards a high
21	S70W Steep Banks on Right covered with Rich Land on Right Timbered with Oaks. At Ten Minutes Small Island on Right	.....	19.....	1¾.....	264.....	D ^o.....	.....	.....	At 8 Min. high Red

18, Logstown, in French Chingugé, was the most important English trading post on the upper Ohio, until the French captured it in 1754. B. W. Bond, Jr., *The Foundations of Ohio*, vol. I, *History of the State of Ohio* (Columbus, 1941), 110, 142.

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
22	S53W	.....	9	...¾	..264	..d°	.....	.....	
23	S38W	.....	8	...¾	..88	..d°	.....	.....	Bottom on L ^t on R ^t a Ridge
24	S70W on L ^t at Ridge on L ^t	 8 Minutes the	8	...¾	..88	..d°	.....	.....	At 5 Min. Small Island ter. Level Land on R ^t a
25	N79W	.....	4	...¼	..264	..d°	.....	.....	
26	N35W on R ^t At Ridge on L ^t	 At end of this	17	..1¼	..352	..d°	.....	.....	At 12 Min. Small Island small Bottom on R ^t High
27	West	.....	11	...1	..176	..d°	.....	.....	Ridge on R ^t Level Land on L ^t
28	S62W Creek 40 Y ^{ds} on R ^t which R Encamped here— Thursd day the 19 th Embark	 10	10	...1	.....	..d°	.....	.....	At 8 Min. Little Beaver — oClock A.M. and went
29	S35W	.....	5	...½	.....	..d°	.....	.....	Bottom on both sides of the River
30	S81E Bottom on R ^t of River, a R	.....	6	...½	..176	..d°	.....	.....	To a small Island on L ^t
31	S50W low Land on R ^t a Ridge on L ^t at At 16 Min. large Run on L ^t and end of the Island on R ^t Bottom on R ^t bound by a high Ridge, At 21 Min. Run on L ^t at end of the course Run on left which goes thro' level Rich Land	 23	23	..2¼	..88	..d°	.....	.....	At 4 Min. End of Island. d on R ^t well Timbered, level land on L ^t and small Run on L ^t at end of the —
32	N78W on L ^t level Rich Land on R ^t and a Ridge on L ^t	.....	4	...¼	..264	..d°	.....	.....	to a large White Rock
33	N33W low land on R ^t Right & a Ridge on R ^t Low L and on Left— Rocky Ridge	.....	8	...¾	..88	..d°	.....	.....	At 5 Min: Run on R ^t on Left. At end of Course

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
34	S88W Rocks on Left	.....	...5...	...½...	.....	..d°...	.....	.....	At 4 Min. three White of the Course a Run on
	n R ^t at foot of high Steep Rocky Ridge—							at end	
35	S69W level Rich Land	.....	...14...	...1¼...	..264...	..d°...	.....	.....	At 4 Min. Run on R ^t
	on L ^t —Hills on Right								
36	S35W Ten Min River, small Bottoms	.....	...21...	...2...	..176...	..D°...	.....	.....	At 4 Min. Run on R ^t At ¼ Mile from the
	a Spot of cleared upland on R ^t a Ridge on Right								
37	S25W on R ^t 200 Y ^{ds} banks on R ^t	.....	...5...	...½...	.....	..d°...	.....	.....	At three Min: an Island upland and high Steep
	long, all this Course level Doyed [sic] upland								
38	S22E on R ^t 30 Y ^{ds} River and a Ridge	.....	...7...	...½...	..352...	..d°...	.....	.....	At 5 Min. Yellow Creek high upland on left of
	wide a small bottom below the mouth, High								
39	S45E for two which is Right level Bushes. large Rich Bottom	.....	...10...	...1...	.....	..d°...	.....	.....	At one Min. a Run on L ^t of Rocks 12 feet High in the foot of high Ridge on
	Minutes from beginning of this Course a Wall of Rocks 12 feet High in the foot of high Ridge on								
	a small Cave with a Cemicircular entrance at L ^t 100 Y ^{ds} Long covered with								
	Left. At 7 Min. an Island on left, High Ridge on Right and a								
40	S40E Island thr'o level Rich Land	.....	...13...	...1¼...	..88...	..d°...	.....	.....	At 8 Min. End of the
	with Small Timber, At Ten Min. a Creek on left 25 Y ^{ds} wide, running								
41	S30E about the Middle of the River with Small Timber, At	.....	...14...	...1¼...	..264...	..d°...	.....	.....	At 5 Min. Small Island
	the Middle of the River—level upland on R ^t ½ Mile wide, High Ridge on Left—								
42	S27E	.....	...14...	...1¼...	..264...	..d°...	.....	.....	Small Bottom on each side of River
43	S50E this Course three Quarters	.....	...11...	...1...	..176...	..d°...	.....	.....	large bottom on L ^t all
	wide, and at the beginning on R ^t a high Ridge								

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
44	S32E	.....	4	1/4	264	d°	.....	.....	High Ridge on L ^t large Bottom on R ^t
45	S1E on Right	.....	9 t and a Ridge	3/4	264	d°	.....	.....	large Bottom this course on Left
46	S15W Bottom on R ^t Strait for Thre	.....	14 e Hun	1 1/4	264	d°	.....	.....	All this Course large dreds Yards up it, with a high Ridge close on each side of it
47	S5W Middle of the land on Right	.....	4 of River	1/4	264	d°	.....	.....	At 2 Min. an Island in with Small Timber, a Large Rock opposite Head of the Is- on L ^t of River
48	S18E	.....	9	3/4	264	d°	.....	.....	Bottom on left. Ridge on Right
49	S5E	.....	11	1	176	d°	.....	.....	Narrow bottom on L ^t Ridge on R ^t
50	S25W and begin end of the	.....	7 inning of another a little nearer Right Hand Shore, which continues to the Course	1/2	352	d°	.....	.....	
51	S60E Rock on left here the	.....	8 Current	3/4	88	D°	.....	.....	Opposite a large high om land on R ^t is extremely Strong, bott
52	S77W	.....	3	1/4	88	D°	.....	.....	
53	S35W	.....	6	1/2	176	D°	.....	.....	Level on L ^t a Hill on R ^t
54	S30E R ^t on R ^t [sic]	.....	4 with a Small	1/4	264	D°	.....	.....	Opposite a large Run on Bottom
55	S65E	.....	8	3/4	88	D°	.....	.....	Bottom on L ^t Ridge on R ^t
56	S40E on Left	.....	6 1/2 Runni	1/2	264	D°	.....	.....	At 5 Min. Small Creek ng thr' o a Bot tom, Bottom on the Right
57	S1E	.....	11	1	176	D°	.....	.....	large Bottom on R ^t Ridge on L ^t

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
58	S3E on L ^t running	...9...	...3/4...	.264...	D ^o.....	.....	.....	.....	At 5 Min. Large Run side of the River
59	S30E Ridge on R ^t and Rich	...11...	...1...	.176...	D ^o.....	.....	.....	.....	All this Course high
60	S6E on left at five ate on a large level on the left	...10...	...1...	.....	D ^o.....	.....	.....	.....	At 2 Min. Small Island Mingo Town on R ^t Situ- bank of the River, ¹⁹ a Ridge
61	S9W a small Bottom	...4...	...1/4...	.264...	D ^o.....	.....	.....	.....	Level land on R ^t on left
62	S24W on Right Twenty five running thr'o Rich Bottom, Ridge	...4...	...1/4...	.264...	D ^o.....	.....	.....	.....	At one Minute a Creek ther on L ^t the same Width Right
63	S18W	...5...	...1/2...	.....	D ^o.....	.....	.....	.....	level on right
64	S12W end of the Course high Ridge on R ^t	...10...	...1...	.....	D ^o.....	.....	.....	.....	Bottom on R ^t & L ^t at
65	S2E high Ridge on R ^t At nine	...12...	...1...	.352...	D ^o.....	.....	.....	.....	Large Bottom on L ^t Bottom begins on R ^t
66	S32W 20 Y ^{ds} At four Min. high Ridge on L ^t this Ridge Runs as well as the River—Rich Bottom on Right 1/2 Mile	...5...	...1/2...	.....	D ^o.....	.....	.....	.....	At 2 Min. Creek on L ^t Parrallel with the Creek wide—
67	S52W	...17...	...1 1/2...	.352...	D ^o.....	.....	.....	.....	Ridge on L ^t Bottom on R ^t
68	S37W	...8...	...3/4...	.88...	D ^o.....	.....	.....	.....	At 5 Min. Bottom be- gins on Left
69	S13W on right Rich Bottom on Left	...11...	...1...	.176...	D ^o.....	.....	.....	.....	At 10 Min. Ridge close
70	S5W	...16...	...1 1/2...	.176...	D ^o.....	.....	.....	.....	Bottom on R ^t & L ^t 1/4 Mile wide

19. Mingo Town, just below modern Steubenville, was a village of about 70 to 80 renegade Iroquois. J. A. Caldwell, *History of Belmont and Jefferson Counties* (Wheeling, W. Va. 1880), 526-527.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
71	S31W on Left, at Ten Min. of it, Small Bottom which, the Ridge comes	17	17	1½	.352	D ^o ..	.....	.....	At 3 Min. Ridge close level Rich Land on each side n. Run on L ^t . Just below
72	S22W this Course and a small Bottom about half the Course	20	20	2	.....	D ^o ..	.....	.....	Bottom Land on right side on L ^t at end of Course
73	S15W Island, this Course Bottom on R ^t a Ridge on L ^t	6	6	½	.176	D ^o ..	.....	.....	At 5 Min. End of the
74	S2E near Right Hand Shore. At nine Min. the Lower end of Island. At 10 Min. Island in Middle of River—opposite this Island bottom on R ^t ends at 15 Min. the end of the Island Pretty well Timbered—Bottom on left a Ridge on R ^t	16	16	1½	.176	D ^o ..	.....	.....	At 6 Min. Small Island
75	S10E m ⁴⁰ and Encamped Fryday 20 th June Embarked Sixteen Min. after 10 oClock. Sailed	3	3	¼	.88	D ^o ..	.....	.....	to M ^t Morgans Encamp-
76	S10W 6	6	6	½	.176	D ^o ..	.....	.....	large Bottom on R ^t , on left a small one
77	S28W half the course bottom three Quarters Mile wide on Right, Ridge on L ^t at end of Course Bottom on the R ^t	4	4	¼	.264	D ^o ..	.....	.....	Bottom on R ^t & L ^t at
78	S14W Island on R ^t large Bottoms this Course on R ^t & L ^t	3	3	¼	.88	D ^o ..	.....	.....	At one Min. Head of an
79	S19E 7	7	7	½	.352	D ^o ..	.....	.....	large Bottom on each side
80	S10W 30 Y ^d s wide, which you see up it for four Hundred Yards to where a Ridge borders close on the Lower side ²¹ —Large Bottom on R ^t & L ^t of the River	3	3	¼	.88	D ^o ..	.....	.....	At 2 Min. Creek on L ^t
81	S15W Island with small Timber, at end of this Course Ridge	5	5	½	.....	D ^o ..	.....	.....	At 3 Min. End of the on R ^t bottom on L ^t

20. This probably was a trading post established by George Morgan, of Baynton, Morgan & Co. of Philadelphia, who accompanied Croghan's expedition.

21. Probably Wheeling Creek, which empties into the Ohio River at present-day Wheeling.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	Encaamped on R ^t side of River— Saturday 21 st June Embarked and Sailed—								
82	S4W		3½	¼	176	D ^o			Bottom on right & left 500 Y ^{ds}
83	S13W Right with Small Timber. Large bottom on right. bottom on left.	20½	2		88	D ^o			At 5 Min: Island on right 30 Y ^{ds} wide. Ridge 200 Y ^{ds}
84	S5E Ridge Sets in on Right, At 6 Min: Small Run on Right. Bottom widens on Right—	13½	1¼	176	d ^o				large Bottom on left, large bottom on left,
85	S22W large bottom R ^t Ridge close on left.	8	¾	88	d ^o				River 350 Y ^{ds} wide.
86	S52W at Foot. At El even & on R ^t	12½	1 half	252	Minutes a Run on R ^t Bottom on L ^t Hill sets in	D ^o			Ridge close on L ^t Rocky
87	S9W	8½	¾	49		D ^o			Hill close on R ^t Large bottom on L ^t
88	S10E on L ^t all this with Station	16	1¼	376		D ^o			Ridge on R ^t & Bottom wide. Ridge on R ^t ends
89	S20W course, a Creek twenty Y ^{ds} wide on left at end of the Course—	8	½	408		d ^o			Bottom on R ^t & L ^t this
90	N56½W last Creek. Bottom Continues on Right. At Seventeen Min. Narrow bottom on right & l ^t	18½	1½	338		d ^o			Ridge close on left from
91	S74W on left. a Run on R ^t at end of this Course	7	½	247		d ^o			Hill close on R ^t Bottom
92	S6W close on R ^t length of Course, at Seven Min. a Run on R ^t the River 300 Y ^{ds}	8	½	408		d ^o			Bottom on L ^t & Ridge

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
93	S30W this Course Bottom		21½	1¾ on L ^t	382 Ridge	on R ^t	d ^o		Small Island at end of
94	S2W on left, a Ridge		9½	¾ on L ^t a	352 Bottom	D ^o	on R ^t		At 4 Min. end of Island
95	S64W 25 Y ^{ds} gins on left. Ridge		20½	2 out of close on	88 large Bottom, Right,	D ^o Bottom, bottom	Ridge on L ^t		At 7 Min. a Creek on R ^t — At 14 Min. Bottom be-
96	S4W		7	½	352	D ^o			Ridge on R ^t Bottom on L ^t
97	S9E bottom on Left, at end of this Course		11	1	11	D ^o	on Island on L ^t		Ridge on Right, Narrow Small Timber—
98	S3½W divides the Ridge.— on L ^t forty Y ^{ds} —Narrow Bottoms		13	1 At Six Min. end of	333 Min. end of Island	D ^o	on each side the River—		At 3 Min. Run on R ^t — At Six & a half Min. a Creek
99	S55W & L ^t at Seventeen Min. a Run		24	2¼ on R ^t	264 comes thro' a Bottom—	D ^o			Narrow Bottoms on R ^t
100	S20W row on Right — At Eight Min: a Creek on Right forty Y ^{ds}		9½	¾	352	D ^o			large Bottom on L ^t nar- At end of Course a
101	S40E Bottom on the Left. At fifteen Min. Large Run on Right which Divides y ^e Ridge from Creek to End of this Course Bottom on R ^t —and at the end a		34½	2½		D ^o			
102	S1W left—from beginning of this Course Bottom on Right & L ^t At 6½ Min a		9	¾	264	D ^o			At 5 Min. large Run on
103	S77W		16	1¼	376	D ^o			Bottom on L ^t Ridge on R ^t
104	S22W		6	½	86	D ^o			Ridge on R ^t Bottom on L ^t

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
105	S2W on R ^t At Six	10 Min.	a	$\frac{3}{4}$ Bottom	290 on the Right.	d ^o			Bottom on L ^t a Ridge
106	S20W Encamped on Sunday 22 nd E			$\frac{3}{4}$ the Right of River	$\frac{1}{4}$ Min. a	123 after 12 oClock	d ^o		Bottom on L ^t & R ^t
107	S5W row on Y ^{ds} R ^t At	23 Eight		$\frac{2}{4}$ teen M	88 in. & o	D ^o one half	Creek	on L ^t	large Bottom on L ^t nar- 30 Y ^{ds} Ridge on R ^t 300
108	S27W Bottom on L ^t	6		$\frac{1}{2}$ Bottom	176 widens on R ^t	D ^o			Ridge on R ^t Continues. Bottom widens on Right
109	S65W on L ^t at five M	7 . . .		$\frac{1}{2}$ in. & o	352 one half a Run	D ^o on R ^t			At 5 Min. Ridge close
110	N85W Broad out in a Min.	21 . . .		2 Min. Low	176 Island on L ^t Bottom	D ^o Ridge close o		on R ^t at	At 9 Min. River 300 Y ^{ds} widens on L ^t , Log Run end of Course
111	S54W Bottom widens on L ^t	4 . . .		$\frac{1}{4}$ Ridge	264 close o	D ^o on R ^t			At 3 Min. End of Island
112	S49W R ^t at Twelve Min. L ^t Bottom Widens on along the Island—At begins on L ^t At 48 Min. out in One Min., At Strong Current, At One Min. Ridge close			Head of Island on R ^t At Twenty Six Min. Ridge Run on R ^t Bottom on L ^t Ridge on L ^t One Hour & 7 Min. Water	on L ^t , Bottom on L ^t , end of Run out in a minute. At forty three Min. bottom on L ^t , at 59 Min. Log Run on R ^t bottom on L ^t , One Hour & thirteen				At 11 Min. large Run on L ^t , narrow Bottom on Island, Narrow Bott ^m minute. Strong Water
113	S49W Bottom begins	1	22	8	252	D ^o			At one Hour & 16 Min. on R ^t
14	S45W L ^t and a very large Run on R ^t At	38		$\frac{3}{4}$	88	D ^o			At 4 Min. an Island on End of Island, At 15 Min. —Bottom on R ^t At

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	Thirty two Min. Ridge close on L ^t . At 26 Min. & a half a Small Creek on R ^t . Bottom begins on L ^t . End of Course large								
15	S30W very Narrow on R ^t . At Twelve Min. Ridge One Hundred Yards on R ^t . Eight Min. & one half a large Run on L ^t . Y ^{ds} on R ^t .	36½	2½	418	.....	.....	.....	D ^o .. At 8½ Min. Bottom on L ^t . At 19½ Min. Ridge One Hundred	
16	S80W a Ridge close on L ^t . Bottom on R ^t . Pretty Large — At 13 Min. Run on R ^t . At fifteen Min. Bottom begins on L ^t . And a Ridge Close on Right—	28	2	176	.....	.....	.....	D ^o .. Beginning of this Course	
17	S30W Pretty Large Bottom on L ^t . Left—At Seven Min. End of Island, and Encamped	10½	¾	375	.....	.....	.....	D ^o .. At 2 Min. Island on R ^t .	
	Monday 23 rd June Embarked for ty five Min. after Six oClock								
18	S39W Min. Island on L ^t . Ridge close on R ^t . & L ^t . Log Run out in half a Min.	16	1¼	376	.....	.....	.....	D ^o .. Bottom on Left. At 2½	
19	S14W At 2½ Run on R ^t . Ridge on R ^t . one Hundred Y ^{ds} At 10 Min. End of Island. on L ^t . At five Min. Bottom. Bottom on R ^t . Ridge close on L ^t . River 350 Y ^{ds} since past the Island—	15	1	220	.....	.....	.....	D ^o .. Small Bottom on R ^t .	
120	N80W on R ^t . Bottom widens on R ^t . & L ^t .	17	1¼	40	.....	.....	.....	D ^o .. At 12 Min. large Run	
21	S70W Ridge close on R ^t . Bottom on L ^t . Log Run out in ¾ of Min. At 9½ Island close on L ^t . Hand shore. At 13 Min. Island on R ^t . & L ^t . At fifteen Min. End of Island on L ^t . River 600 Y ^{ds} . Bottom on R ^t . & L ^t . At Twenty One Min. End of Island on R ^t . River 400 Y ^{ds} near end of Course an Island on R ^t .	29	2	208	.....	.....	.....	D ^o .. At 7½ Min. Run on L ^t .	
122	S71W here the Water fifteen feet, narrow Bottom on R ^t . large on L ^t .	10½	1	88	d ^o ..	.....	.....	D ^o .. At 8 Min. end of Island,	

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
23	S58W tom on L ^t , at Bottom Ridge two	.....	36½ Eleven on R ^t , hundred	3½ Min. & half Bottom Y ^{ds} on	264 Large on L ^t , Wa	d. ^o Large Pret ter 20	Run on L ^t . Large, Water	.....	Ridge close on R ^t , Bot- tom Run out in ½ a Min. 19 feet, at 28 Min.
24	S89W 12 Min.	.....	17 Large Run	1½ on L ^t . Large	352 Bottom	d. ^o .....	.....	.....	Bottom on R ^t & L ^t at
25	N45W Hills appear	.....	9 Small	¾	264	D. ^o	.....	.....	Bottom on R ^t & L ^t . The
26	N15W Min., Creek	.....	31 Water Twen- ty feet, Nar- row Bott	3 At Twenty	176 One Min.	D. ^o .....	.....	.....	Log Run out in ½ a Bottom on R ^t where the 25 Y ^{ds}
27	N40W land on R ^t	.....	20½ Water Sixteen	2 feet and	88 half,	D. ^o	.....	.....	beginning of Course Is-
28	N74W	.....	5½	½	88	D. ^o	.....	.....	Bottom on R ^t & L ^t
29	N82W Island This Ri- half Ridge	.....	8½ At Eight Min the Musking- um Ri- 250 Yards wide and is in L ^t Bottom on	¾	176	D. ^o	.....	.....	At one Min. End of R ^t Bears N20W 400 Y ^{ds} up— 39°:19' at Eleven Min. & a
130	S45W Min Bot- tom be- gins on R ^t	.....	30½ At Twenty	3 feet De- p. At	88 Twenty	D. ^o	.....	.....	Water 23 feet, At 22½ Min. & half an Island on L ^t
31	S58W At 6 Min Twenty- four Min. Island on	.....	39 Twenty feet De- p. At	3¾ Ridge on L ^t . At 36 Mi- n. end	264	D. ^o	.....	.....	Bottom on R ^t & L ^t End of Island. At Twenty One Min Run on R ^t . At Twenty
32	S8W feet, Bot- tom on L ^t . & L ^t . At	.....	26½ on L ^t . Ridge on R ^t . At Twenty Six Min. Large	2½ Run on R ^t	264	D. ^o	.....	.....	At 10 Min. Water 20 Island on L ^t . Level on R ^t
33	S6W Encamp ^{ed} ²³	.....	14	1¼	264	D. ^o	.....	.....	At 6 Min. end of Island—

22. Fort Harmar was established in 1785 on the west bank of the Muskingum at its junction with the Ohio. On the east bank of the Muskingum, Marietta was settled in 1788. Captain Gordon was strongly impressed with the strategic importance of the mouth of the Muskingum. *Journal of Captain Harry Gordon*, 465.

23. This camp was probably at the site of Belpre, settled in 1789, and opposite the mouth of the Little Kanawha and modern Parkersburg. Just below was the famous Blennerhassett's Island.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
		Tuesday	the 24 th	of June	Remained	in Camp all Day—			
		Wednesday	the 25 th	Embarked	fifty two	Min. after 5 oClock			
34	S16W high Banks Ridge close	8	$\frac{3}{4}$	88	D ^o	Bottom on R ^t & L ^t with ha] River on L ^t 100 Y ^{ds}			
135	N83W on L ^t two Hundred begins on Quarter of a Mile Bank ²⁴ —Water	33	3	33	D ^o	At 3 Min. Rocky Shore on L ^t at 8 Min. Bottom on R ^t side of River one collins Cabbin on high R ^t Ridge close on L ^t)			
36	N77W Island (at End of the L ^t At	20 $\frac{1}{2}$	1 $\frac{3}{4}$	220	D ^o	At 3 $\frac{1}{2}$ Min. End of last Island) at 11 $\frac{1}{2}$ Min. Bottom on R ^t Narrow bottom on			
37	S47W Min. Ridge R ^t of the	16 $\frac{1}{2}$	1 $\frac{1}{2}$	17	D ^o	Water 20 feet, at 7 $\frac{1}{2}$ Min. Ridge close on R ^t 12 Y ^{ds} large Rock on			
38	S11E High Rocky Bottom on	23	2	183	D ^o	Water 18 feet, at 7 Min. Ridge close on R ^t Bottom begins on R ^t			
39	S61W L ^t 200 Y ^{ds}	6	$\frac{1}{2}$	176	D ^o	At 3 $\frac{1}{2}$ Min. Island on			
40	S70W on R ^t at 7 Min. on R ^t	14	1 $\frac{1}{4}$	264	D ^o	Water 19 $\frac{1}{2}$ feet, Bottom End of the Course Island			
41	S37W End Isl and—	10	1		D ^o	Water 17 feet, at 8 Min.			
42	S33W Bottom on	10	1		D ^o	Bottom on L ^t , at 6 Min.			

24. This is an interesting bit of evidence that squatters had already begun to settle on the rich bottoms along the west bank of the Ohio. Bond, *The Foundations of Ohio*, 255.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
43	S55W Min. Bottom on L ^t at Eight Min. Creek on R ^t & L ^t		10½	1	88	D ^o			Water 5 Fathom, at 5 Y ^{ds} Hockhocking [Hock-
44	S13E At 8½ Ten Y ^{ds} wide on L ^t , Ridge on R ^t , Bottom on L ^t	Min.	25½	2¼	145	.....	D ^o		At 2 Min. Ridge on R ^t on L ^t at 23 Min. Creek
45	S1E narrow level up End of Island, bottom on R ^t high banks on R ^t at Sixteen Min. Ridge in lines off the River on Right, Island on L ^t At 24 Min. d of Course		33	3¼	88	D ^o			
46	S42W Large Run on L ^t large Bottom on R ^t at Thirteen Min. L		17½	1½	178	D ^o			Water 19 feet, at 4 Min. narrow Bottom on L ^t & R ^t
	S82W on L ^t large Bottom on R ^t all the Course		10	¾	290	.....	D ^o		Water 18 feet. Ridge
	N73W L ^t Bottom on R ^t at Thirteen Min & one half a large Run on R ^t		17½	1½	177	.....	D ^o		Water 20 feet. Ridge on
	S3W on R ^t Bottom at Thirteen & a half Min. a Creek on R ^t 20 Y ^{ds}		13½	1	22	.....	D ^o		Water 21 feet. Ridge
	S32E on R ^t bottom on L ^t at Fourteen Min. Run on R ^t —		18	1¼	176	.....	D ^o		Water 23 feet. Ridge
	S47E Min. bottom begins on R ^t At Seventeen Min. Run on R ^t		27½	2½	127	.....	D ^o		Water 23 feet. At 13 R ^t
	S5W begins on Left, at Seven & a half Min. & a half an Island on R ^t a spit of Land	Min.	17¾	1¾	44	D ^o			Water 20 feet. Ridge
	S25W on L ^t Bottom L ^t at Eighteen Min. l		22	2	352	D ^o			Water 20 feet. Ridge

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S25E on R ^t and on L ^t		8 at five	$\frac{1}{2}$ Min. Small R	408	run on	D ^o L ^t		Water 23 feet. Bottom
	S40E close on Bottom		19 R ^t Bottom on the	$1\frac{3}{4}$ L ^t At R ^t	264	Min. a Ten	D ^o Creek on L ^t		Water 22 feet. Ridge 15 Y ^{ds} wide—here the
	S40W		12	1	172		D ^o		Water 22 feet. Ridge begins on Left,
	West		10	1		D ^o			
	N60W Min. bottom		13	$1\frac{1}{4}$ L ^t Bottom	88	D ^o on R ^t & L ^t at			Water 22 feet. At 7 this Course
	Encamped on			R ^t of River	—				
	Thursday 26 th June			Embarked	54 Min.	after	6 oClock		
	N55W		5 $\frac{1}{2}$	$\frac{1}{2}$	88	D ^o			Bottom on R ^t & L ^t
	N46W very narrow Bottom		17	$1\frac{1}{2}$ on L ^t at four	352	D ^o teen Min. Bottom begins on L ^t			Water 29 feet, at 5 Min.
	S71W Min. large Run on R ^t		10 $\frac{1}{4}$	1 R ^t and a	44	D ^o on L ^t Runs in 100			Y ^{ds} , Narrow Bottom on
	S20W Min. Small Run on R ^t		11	1 R ^t narrow Bottom	176	D ^o on R ^t ,			Water 12 feet, at $9\frac{3}{4}$
	S1W		14 $\frac{3}{4}$	$1\frac{1}{4}$	396	D ^o			Water 17 $\frac{1}{2}$ feet,
	S33W Min. Island camp on ²⁵		13	$1\frac{1}{4}$ Left—At Six	88	D ^o Min. End of Island, a Safe			Water 24 feet. At one place for Traders to in-
	S57W widens on R ^t for the Bottom on L ^t		19 at three three preceeding At Twelve Min.	$1\frac{3}{4}$ Min. Small Run	264	D ^o Creek on L ^t 20 Y ^{ds} At five Min. large Run on R ^t , at 9 Min. narrow of Course Ridge close			

25. This comment is a striking illustration of Hutchins' careful and intelligent work. Note 26, *post.* etc.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N60½W that divides the Ridge on L ^t .		10½	1	88	D ^o ..	.....	.....	At 3 Min. Small Run on R ^t Narrow bottom
	N42½W Min. Island on good place for L ^t Shore at Twelve		16½	1½	264	D ^o ..	.....	.....	Water 17 feet. At 3 and half end of Island. Island begins nearer the low land on L ^t
	N39E close on L ^t at Twenty		29¾	2	407	.....	.....	D ^o ..	Water 15 feet. Ridge close on L ^t at Sixteen Min. Small Run on R ^t at Twenty Min. Ridge close on R ^t
	N25½W L ^t Ridge 17 Min. Bottom Run on small R ^t on L ^t		47¼	4¼	127	.....	D ^o ..	.....	Water 29 feet. Bottom on Y ^{ds} —Water 5 Fathom, at 21 feet. at 40¼ Min.
	N76½W Water fifteen feet—large Bottom on L ^t at five Min. Bottom		10½	1	88	D ^o ..	.....	.....	Bottom is Narrow on R ^t Bottom widens on R ^t
	S76½W Min. large Run on R ^t		15½	1½	88	.....	D ^o ..	.....	Water 5 Fathom, at 5½ Min. Bottom widens on R ^t
	N15W 7 fathom Line. Ten Min. Bottom Run on R ^t & a Run on L ^t N		30	2¼	.....	.....	D ^o ..	.....	Water no bottom with Ridge close on L ^t —At Ten Min. small Run on R ^t
	N54½W Ridge close on R ^t at 9½ Min. Run on R ^t		12½	1	253	.....	D ^o ..	.....	Water 6½ Fathoms. Ridge close on R ^t that Divides the Ridge at
	S76½W continues on R ^t Bottom on L ^t the end of this Course		13	1¼	88	D ^o ..	.....	.....	Water No Bottom, Ridge is in Latitude 38°:40'
	S50W Min. Run on R ^t , Ridge sets in there—		12½	1	253	.....	D ^o ..	.....	Water 7 Fathom, At 4½

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S14½W tom on L ^t Ridge on R ^t At	20¾	2	132	Twelve	D ^o ..	Bottom	begins on R ^t	Water 7 Fathom. Bot-
	S55½W Sets in on L ^t at Nine & three Quarter Min. Bottom begins on L ^t & Continues Narrow at Thirteen Min. & three Quarters Run L ^t —At 20 Min very Large Run on R ^t Bottom widens on L ^t —At 27¾ Min. small Run on R ^t	31¾	2¾	272	.....	D ^o ..	.....	.....	Water 41 feet. Ridge
	S14W 7 Fathom Line. Narrow Bottom on R ^t at five Min. small Run on L ^t at 6 Min. Bottom widens on R ^t as small Run on R ^t at end of the Course	8¾	¾	88	.....	D ^o ..	.....	.....	Water no Bottom with
	S22½W 14¼ Min. Island on L ^t Bottom on R ^t & L ^t	38	2¾	176	.....	D ^o ..	.....	.....	Water 7 Fathoms. At
	S35W Min. an Island lying in the Course of L ^t hand side of River—at 11¼ Min. end of Island—	19	1½	419	.....	D ^o ..	.....	.....	Water 21 feet, at 6½
	S38W Min large Run on R ^t Narrow bottom on R ^t	6	½	176	.....	D ^o ..	.....	.....	Water 5 Fathom, at 1¾
	S8E 6 Min. Bottom widens on R ^t at end of Course large	9	¾	129	.....	D ^o ..	.....	.....	Water 5½ Fathoms, at
	S15E row Bot tom on R ^t At Eight Min. very large Run on L ^t Bottom on R ^t & L ^t	18	1½	358	.....	D ^o ..	.....	.....	Water 5 Fathom, Nar-
	S16W on R ^t Water five Fath ^{ms} —at end of this Course Great Kanhawa River ²⁷ on L ^t Course up it is S80E for 400 Y ^{ds} At its Co nfluence with the Ohio, the Banks are high, with a long bottom on both sides at least ½ Mile Broad—	17½	1½	177	.....	D ^o ..	.....	.....	At One Min. large Run
	Fryday the 27 th June Embarked					54	Min.	After 7 oClock	
	S42W bottom narrow on L ^t Water fifteen feet, Bottom on R ^t	10¼	¾	371	.....	D ^o ..	.....	.....	Water 18 feet, at 7 Min.

27, i.e. the Kanawha River. Father Bonnécamps, the Jesuit chronicler of Céloron's expedition, was much impressed by the "Illinois cattle" (buffalo) at the mouth of the Kanawha, and Captain Gordon noted them also on the upper Ohio, although he found them more numerous below the Scioto. *Jesuit Relations*, R. G. Thwaites, ed., vol LXIX (Cleveland, 1900), 177-178; *Journal of Captain Harry Gordon*, 465; note 30. *post*.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S58W Min. Bottom of Island	at	35½ widens on R ^t at Thirty	3½ on L ^t two Miles	88 fourteen & one	D ^o .....	.....	.....	Water 15 feet, at 11 Min. End on R ^t at 20 Min. End on R ^t
	S15W 6 Min. Bottom		16½ Narrows on R ^t	1½	36	.....	d ^o .....	.....	Water 6½ Fathom, at
	S32½E Narrow Run on R ^t at end of this Course	bottom on R ^t	9 on R ^t at five Miles	¾ on R ^t at five Miles	129	.....	d ^o .....	.....	Water 6½ Fathom. n. bottom Widens on R ^t at 8½ Min Small Number of Rocks near Shore on R ^t
	S50E Min. Narrow	bottom on R ^t	16¾ at five	1½	220	D ^o .....	.....	.....	Water 4 Fathom, at 1 Min. Bottom Widens on R ^t
	S15½E on R ^t and L ^t At Eighteen Min. Island on R ^t all Sandy with bushes At Twenty four Min. large Run on L ^t		34 At Eighteen Min. end of Island, Water. 18 feet, At 23 Min. small Creek on R ^t at Twenty	3¾	264	D ^o .....	.....	.....	
	S13¾W Ridge on L ^t on Bottom	on R ^t	22 on R ^t Bottom	2 Quarter of a Mile, at Twenty Miles	352	d ^o .....	.....	.....	Water 19 feet. at 4 Min. small Run on R ^t Narrow
	S15½E Min. Run on L ^t Ridge on Min. large Run on L ^t		46¾ L ^t Ridge on L ^t	4½	220	d ^o .....	.....	.....	Water 4 Fathom, at 12 Min. Bottom on L ^t all this Course, at thirty Six
	S13½W		5¾	½	44	D ^o .....	.....	.....	Bottom on R ^t & L ^t
	S11W Min Run on L ^t — at		11¾ — at	1 Nine	51	.....	d ^o .....	.....	Water 4 Fathom, at 5 Min. Bottom Narrow on L ^t
	S59W on L ^t at 100 Yds At Thirteen Min.	Bottom	16¾ Bottom	1½	57	.....	d ^o .....	.....	Water 3 Fathom, Ridge Bottom widens on L ^t At 7 Min.
	N82W on R ^t Bottom	widens on L ^t	5 on L ^t at beginning	½	.....	D ^o .....	.....	.....	Water 4 Fathom, A Run of Course
	N80W to a Creek on L ^t fifteen Yards wide		34 L ^t fifteen Yards	3¾	264	D ^o .....	.....	.....	Water 17 feet, at 4 Min e At Twenty One Min.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	Ridge on R ^t At 29 Min. Small Run on R ^t at end of Course bottom widens on R ^t —large bottom on L ^t								
	S45W on L ^t three Quarters	23		2	183		d°		Water 19 feet, Bottom on R ^t Ridge on R ^t
	S6W Min. bottom begins on R ^t Bottom on L ^t ¼ Mile Wide—at end of Course	34		3	194		d°		Water 29 feet, At 19 Min. Run on Right
	S15W tom on R ^t at end of Course	13		1	333		d°		Water 5 Fathom, Bottom on R ^t at end of Course
	S6W tom on R ^t , at one Min. Small Run on L ^t at 10 Min Run wide on L ^t —at end of the Course	27		2	44		d°		Water 5 Fathom, Bottom on R ^t Bottom 400 Y ^{ds}
	S17½W tom on Right here we Enca mped	2½			402		D°		Water 5 Fathom, Bottom on R ^t 50 feet high
	Saturday 28 th June Embarked Eight Min. after 5								
	S15W Min. Run on R ^t at nineteen Min. Nar row Bottom on L ^t all this Course	37		3¼	237		d°		Water 5 Fathom, at 8 Min. bottom widens on R ^t at Seventeen Min. Bottom on L ^t
	S73½W Bottom on L ^t at fifteen Min. Bot tom Widens on L ^t Bottom on R ^t & L ^t	29		2½	269		d°		Water 19 feet, Narrow Bottom on R ^t & L ^t
	N82W Min Big Guya ndot Creek on Right Bank on L ^t & at Sixty Y ^{ds} wide Eight Min. Run on R ^t	21¾		2	308		d°		Water 11 Feet, at 12¾ Min. below the Creek
	S69W row Bot tom on R ^t —at Thirty One Min. & ½ Small Creek on R ^t at fifty one Min. Ridge ¼ Mile on R ^t at 55 ½ Min. large Run on R ^t at One Hour and Eleven Min. small Run on L ^t Bottom widens on R ^t at One Hour & Twenty five Min. Water 12 feet. All this Course Bot tom on L ^t	1	25¾	27¾	186		d°		Water 3 Fathom, Nar row on R ^t at 12 Min. Bottom on R ^t at fifty one Min. One Hour & two Min. Elev en Min. small Run on L ^t Water 12 feet. All this

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N89½W on L ^t Eight thirteen bottom	26¾	2½	220	d.°	at 5 Min. Small Creek			
	Eight Y ^{ds} wide—Bottom half Mile wide on L ^t there, at 15 Min. Water this Course very Narrow								
	N51W Min. Bottom thro' large Bottom.	22	2	22	D.°	Water 2½ fathom, at 7 Min. Bottom widens on L ^t 60 Y ^{ds} wide Running			
	N13W Min. Ridge Bottom Run on L ^t at 30 Min	43¾	4½	132	d.°	Water 2 Fathom, at 9 Min. Bottom widens on L ^t Bottom on L ^t & L ^t at Twenty four Min.			
	N56W 31 Min Ridge of the Course is in Latitude 38°:03'	39½	3½	199	d.°	Water 3 Fathom, for One Run on L ^t at End of the of y ^e River this Encamp-			
	Sunday the 29 th June					Embar ked 6 ½ Min. After 5 oClock			
	N32W Water Bottom	39¾	3¾	308	d.°	at 2½ Min. Run on R ^t at 19 Min. Ridge 200 Y ^{ds} on L ^t At 28 Min. Bottom this Course on R ^t			
	N60½W 25¼ Min. Hill on R ^t	26¾	2¼	266	d.°	Water 4 Fathom, at 25¼ Min. Hill on R ^t with a Vein of Rocks running round the front near the Top. Water 29½ feet—Bottom on L ^t			
	N89W Min a Rocky Shore, ens on R ^t at Twelve Y ^{ds} of Gravel above it—	37	3½	352	D.°	River 200 Y ^{ds} for 4¾—at 9 Min. Bottom wid—at 23 Min. Sholes on L ^t both this and the last			
	N58W on R ^t and L ^t small Creek on L ^t —	40	3½	280	D.°	Water 3 fathom, Bottom Run on L ^t at 35½ Min.			

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N18½W on L ^t 200 yards at 15 Min. Bottom		20¾	2	44	d°	.....	.....	Water 4 Fathom, Ridge at edge of Water 150 Y ^{ds} —end of Course Run on L ^t
	N8½W on R ^t & L ^t this Station		36	3¼	76	d°	.....	.....	Water 19 Feet Bottom small Run on R ^t
	N27½W Min. Run on L ^t Bottom		25¾	2¼	185	d°	.....	.....	Water 5 Fathom, at 5 this Station,
	N11E Ridge on L ^t at Bottom on R ^t Bottom		39	3¾	264	d°	.....	.....	Water 3½ Fathom. begins on L ^t at 35 Min. very large Run
	N20½W Bottom on L ^t at		18½	1½	339	d°	.....	.....	Water 5 Fathom. Bottom on R ^t Bottom on R ^t
	N65W row Bottom on at five Min. Small Creek on R ^t at Two & one half Min. Bottom widens on R ^t Bottom on L ^t		12½	¾	330	d°	.....	.....	Water 5 Fathom, narrow Bottom widens on R ^t Bottom on L ^t
	S68W on R ^t very Rocky on kind of Brownish Coloured flat Stones—Narrow Bottom on R ^t Bottom on L ^t all the Course. Rocky Ridge 300 Y ^{ds} to the		35	2½	220	d°	.....	.....	Water 4 Fathom Ridge for 10 Min. the shore on R ^t entirely a two Hundred Bottom on R ^t widens here—Bottom on L ^t all the Course
	S65W Ridge three Hundred Y ^{ds} on L ^t all the Course. Water two fathom, beginning on R ^t		40	3	.....	d°	.....	.....	Bottom on L ^t Rocky Bottom widens on R ^t Low land At 21 Min. small Creek on L ^t Course Small Run on R ^t
	N72W on L ^t with narrow Bottom and stayed Fryday the 4 th July		24	2	344	d°	.....	.....	Water 3 fathom, Ridge at end of Station and Bottom on R ^t —here we encamped Monday, Tuesday and Thursday
	S64½W Bottom on R ^t Bottom widens large on L ^t At 14 Min. Scloto River on R ^t 120 Y ^{ds} wide in Latitude 38°. 22', Ridge on R ^t better than ½ a Mile		16½	1	418	D°	.....	.....	Water 4 Fathom—Bottom on R ^t 120 Y ^{ds} Scloto River on R ^t 120 Y ^{ds} better than ½ a Mile

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	S25½W bottom on L ^t at end of the Course		19½	1¾	57	.....	.d ^o....	.....	Water 2 fathom—large on R ^t large Bottom on R ^t
	S54W Min. Bottom this Course—day, Sunday		20	1¾	140	.....	.d ^o....	.....	Water 2½ Fathom, at 8 Bottom on R ^t pretty large the R ^t and Stayed Satur-
		Tuesday the	8 th	July	Embarked	5 Min.	after	9 oClock	
	S68W on R ^t Bottom Bottom on R ^t		26½	2¼	307	.....	.d ^o....	.....	Water 11 Feet, Bottom on R ^t —
	S33W on R ^t and L ^t		13½	1	22	.....	.d ^o....	.....	Water 17 Feet, Bottom
	S14W Ridge ¼ Mile on R ^t L ^t all the Course		24	1¾	88	.....	.d ^o....	.....	Water 2 Fathom, a then Bottom widens immediately—& Bottom on R ^t & L ^t
	S45W bottom on R ^t and large Gravelly		19½	1¾	57	.....	.d ^o....	.....	Water 2 Fathom Bottom on L ^t 15 Y ^{ds} wide & a
	S84W Channel more Small Run on L ^t all the Course Timbered her Ridge close on		37½	3¼	317	.....	.d ^o....	.....	Water 4½ feet, the to the Right end of the beech Bottom on L ^t & R ^t ¼ Mile wide. at 3 Min. Bottom widens on R ^t A Ridge on R ^t but thinly t—at end of Course high
	N62W Twenty Min.		29	2	308	.....	.d ^o....	.....	Water 11 feet. At bottom begins on L ^t
	S79½W ¼ Mile on R ^t		12	1	172	.....	.d ^o....	.....	Water 11½ feet Ridge at 9 Min. Small Run on R ^t narrow bottom this Course on R ^t

29. At this and the preceding encampment in the neighborhood of modern Portsmouth, Ohio, George Croghan met a considerable number of Shawnees, Delawares and probably Wyandots. Their reports of French intrigues among the Indians of the Wabash and Illinois valleys were so disquieting that Croghan sent Indian deputies to the Western tribes, to assure them of his peaceful intentions. But from here on to the Falls the expedition proceeded with the utmost caution. Croghan to Gage, January 16, 1767. *Ill. Hist. Coll. XI*, 488; note 34, *post*.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S57W on R ^l 70 Y ^{ds}		8 wide—	$\frac{3}{4}$ at 6 M	88 in. high Ridge	d ^o.....	.....	.....	Water 12½ feet, beech R ^l very Rocky
	S36W Min. Beach 300 Y ^{ds} wide—	60	30¾ Y ^{ds} wide—	$\frac{2}{3}$ wide on R ^l at Eighteen	111 Min. Bottom	.....	d ^o.....	.....	Water 3 fathom at 6 00 Y ^{ds} in, & the River Bottom on L ^l all this
	N81W begins Course		15¼ at the Ridge	1 Nine 0 Y ^{ds} on	353 Min. Small Bottom on L ^l	.....	.....	d ^o	Water 3 Fathom, Ridge and at the End of the Course
	N37W row Bottom Cove at the end of a Y ^{ds} wider, near our Indians Kill'd us		8 L ^l and wide on R ^l at the end of a Stony Mile from 15 or 16	$\frac{1}{2}$ wide on R ^l at the end of a Stony Mile from 15 or 16	176 Min. Small Bottom on R ^l at the end of a Stony Mile from 15 or 16	.....	.....	d ^o	Water 4 Fathom, narrowed on the L ^l at a Pretty d ^s but at the Cove it is 30 Buffaloes Lick at which
	Wednesday Six Minutes further in the Lick above mentioned—		the 9 th July	Embarked on last Course—	Twelve Minutes—	.....	.....	.....	at 6 oClock and continued on L ^l which takes its rise
	N8½W Bottom on R ^l and		24 L ^l this	2 Course—	344 the L ^l Shore	.....	d ^o.....	.....	Water 2 Fathom, Bottom on R ^l and L ^l Shore entirely
	N58W Min. Small Run on Y ^{ds} at Seventeen thirty four Min. small Run on R ^l		38 on R ^l at Seventeen Min. small Run on R ^l	$\frac{3}{4}$ Bottom on R ^l at Twenty One Min. Bottom on R ^l at end of Course	398 Min. Bottom on R ^l at end of Course	.....	d ^o.....	.....	Water 19 Feet at one Bottom on R ^l three Hundred Min. small Run on L ^l at River 500 Y ^{ds}
	N81½W Min. small Run on All this Course—At 54 Min. Channel on R ^l	1	1 small Run on L ^l at Bottom on L ^l —a fine Narrow bottom Widens on R ^l at 3 Fathom deep, very	$5\frac{1}{2}$ at Twenty One Min. Bottom on R ^l at 6 Min. very strong	161 One Min. Run on R ^l at forty Six Min. a large Water—	.....	d ^o.....	.....	Water 2 Fathom, at 16 Bottom on R ^l 200 Y ^{ds} —on both sides all this Min. Water Ten Feet, a Gravelly flat Island
	N81½W Island in swift		Continued in all one Hour & 7	four Min. to end of Course—	Creek on R ^l and 2 Min further to end of these last Six Min. very	.....	.....	.....	
					The two together make				6 Miles & 352 Y ^{ds}

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	N55W Min. Ridge on on L ^t Bottom River 50 Y ^{ds}		46 Left. R ^t all t in Latit	4 Log Run out the Course at 38° 30'	366 32 Min.	.....	d° a Minute, at 20"	.....	Water 2 Fathom, at 7 19 Min. Bottom begins eleven feet, at end of Course
	S87W on R ^t and L ^t		15 to end	1¼ of Station	215	.....	d°	.....	Water 11 Feet Bottom
	S67W Ridge on R ^t at		22 Eighteen Min.	2	22		d°		Water 3½ Fathom,
	S86W Narrow bottom Island 250 Y ^{ds} in two—the		12 on L ^t and to wide thro which largest half on R ^t	1 to Head of a	352	d°			Water 4 feet at 6 Min. the Channel on L ^t this which divides the Island
	S74W Small Run on small Timber Island more t		22 R ^t Channel which overflo	2 100 Y ^{ds} wide—the	352	d°			Water 6 feet at one Min. here high banks and —from end of the Channel 8½ feet deep
	S79W gin ^g of the Isla		12 nd to	1... End of	352... this Station	d°			Water 8 feet, from be- & Bottom on R ^t
		Thur	sd	ay the 10 th	July	Embarked	13½	Min.	after 8
	S40W Min. Run on R ^t		17 Bot	1½ tom on R ^t	97	.....	d°	.....	Water 3 Fathom, at 6½
	S12½W on R ^t with narrow bottom on L ^t to end		41½ of Course	¾ At 32 Min.	82	.....	d°	.....	Water 10 Feet. Ridge Bottom Widens on R ^t Bot- tom on L ^t
	S73W Min. large Run on L ^t		9	¾	129	.....	d°	.....	Water 5 Fathom. At 5
	N67W begins on L ^t —Bottom to a large Gravelly beech Min. end of beech		46 on R ^t —at	4 R ^t Water two	366 29 Min.	.....	d°	.....	Water 4 Fathom, Ridge begins on L ^t at thirty Min. beech 120 Y ^{ds} wide at 38

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	N85W tom on L ^t nar row bot tom on R ^t at		26½	2½	264	.d ^o ... 20 Min.	.....	.....	Water 2½ fathom, Bot- widens on R ^t .
	N31W row Bot tom on L ^t & large B ot tom on R ^t to end of Stati on. Ri ver 52 8 Y ^{ds}		20½	1¾	220	.....	.d ^o ... to end of Station—	.....	Water 3 fathom, Nar- row—
	N13½W on L ^t B ot tom on R ^t to end of Stati on. Ri ver 52 8 Y ^{ds}		12	1	172	.....	.d ^o ... 52 8 Y ^{ds}	.....	Water 4 Fathom, Ridge here we Encamped—
	Fry day the 11 th July Em barked 29 Mi n. after 7 oC lock								
	N20W Min. B ot tom begins on L ^t at Se ven teen Min. small Run on R ^t which Runs thr'o a Ridge and Nar row bot tom,		27½	2	320	.d ^o ... Se ven teen Min.	.....	.....	Water 3 Fathom, at 5 Run on R ^t which Runs
	N69½W Ridge on R ^t at Thir teen Min. Water Twelve feet Mid st of Stream—at Twenty four Min. Bot tom begins on R ^t At end of Course a Gravelly flatt Island on L ^t with nei th[er] bush n or Tim ber on it—		28½	2½	188	.....	.d ^o ... Twelve feet Mid st of Stream—at Twenty	.....	Water 2½ Fathom. Gravelly flatt Island on L ^t
	N52W on R ^t Ridge be gins on L ^t & Bot tom on R ^t to end of station		11	1	11	.....	.d ^o ... End of the Island	.....	Water 10 Feet. Bottom which is two Hundred Y ^{ds}
	N22W Forty Y ^{ds} wide, Water r Two fathom & a half—Ridge on L ^t at 2 2 Min small Run on R ^t River here 550		28½	2½	188	.....	.d ^o ... Ridge on L ^t at 2 2 Min	.....	at one Min. Creek on R ^t L ^t Bottom on R ^t at
	N59W Water Two F athom and a half—Ridge on R ^t & Bott om on L ^t to end of Sta-		16	1	352	.....	.d ^o ... Ridge on R ^t & Bott	.....	at 9½ Min. Ridge on R ^t om on L ^t to end of Sta-
	N73W Shore O ne Hu ndred & fifty Y ^{ds} ou t. at 21 Min e nd of the shoal, Ridge on R ^t at 46 Min. Bot tom be gins on R ^t at Forty Eight Min. Large Run on R ^t Ridge sets in o n L ^t Water T welve Feet, Ridge on left at end of Course & Bottom on R ^t .		57	4¼	44	.....	.d ^o ... at 21 Min e nd of the	.....	at 9 Min. Shallow on L ^t the shoal, Ridge on R ^t at
	N58W Bottom be gins on L ^t —Bot tom on R ^t all the Co urse,		25	2½	.....	.d ^o ... R ^t all the Co urse,	.....	.....	Water 10 Feet, at 9 Min.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	N72½W tom on R ^t and Crooked Creek ³¹ pear much smaller than any yet		6½	½	166	.....	d. ^o.....	.....	Water 5 Fathom—Bot- tom on R ^t 20 Y ^{ds} wide, called Creek—from this Encampment the Ridges ap-
	Saturday the 12 th				July	Embarked	24	Min.	after 5
	S74W Min. Run on L ^t — Bottom widens Water 6 feet, a of Beech at 68 L ^t going down	1	20½	7¼	221	.....	d. ^o.....	.....	Water 16 Feet, at one Min. at Sixteen Min. very narrow Bottom on R ^t at 26 Min. a Run at Forty Seven Min. water 6 Feet near Midst Stream, at fifty one Min. on R ^t at 55 Min. to Middle of a beech on R ^t 120 Y ^{ds} wide—; about Mid Stream, at 59 Min. Small Run on L ^t at 63 Min. End the Beech Ridge close on L ^t Water 7 Feet, Mid Stream, Channel on Water at end of Course 3 Fathom—
	N73½W 4½ Min. small Run on R ^t at Thirty —at Seventy Six Min. small Run on R ^t at end of 9 Min. large Bottom on L ^t that divides the Ridge.	1	59½	8¾	374	.....	d. ^o.....	.....	Water 3½ Fathom, at Seventeen Min. Bottom begins on L ^t at 21 Min. Run The Beech continues 50 Y ^{ds} above & below the Run on L ^t Bottom on R ^t half Mile wide—Grav- chy Shore and small Run on R ^t to end of Beechy Shore at one Hundred & 16 Min. small Run on R ^t at one Hundred
	N29½W Min. Water N on R ^t to end		34½	3	274	.....	d. ^o.....	.....	Water 3 Fathom, at 28 Nineteen Feet, Mid of Stream, River 400 Y ^{ds} Ridge on L ^t Bottom of Stat ⁿ
	North row Bottom on Mid Stream—at		52½	5¼	.....	d. ^o.....	.....	.....	Water 2 Fathom. Nar- row Bottom on L ^t at Twenty eight Min. Water 2 Fathom at fifty two Min. Water 11 Feet. Bottom on R ^t and L ^t
	N36½W Water thirteen Feet on R ^t large Bot- tom on R ^t & Narro- w on L ^t	1	10	5¼	.....	.....	d. ^o.....	.....	At one Min. Run on R ^t thirteen Feet. At Sixty three Min. Bottom Nar- rows on L ^t Water nine Feet on R ^t large Bot- tom on R ^t & Narro- w on L ^t
	N13½W Min. small Run & Runs thro' a Bot- tom which at this place appears to be near a Mile Broad— At Twenty Six Min. Bottom ¼ Mile on L ^t which grows wider—at Thirty Seven Min. Water 8 Feet about Mid S- tream—Bot- tom on R ^t to end of Stat ⁿ	.....	49	3½	308	.....	d. ^o.....	.....	Water 9 Feet. At 10 Min. small Run on R ^t at Twelve Min large Run on L ^t that divides the Ridge Bottom which at this place appears to be near a Mile Broad— At Twenty Six Min. Bottom ¼ Mile on L ^t which grows wider—at Thirty Seven Min. Water 8 Feet about Mid S- tream—Bot- tom on R ^t to end of Stat ⁿ

31. Crooked Creek, on the left or Kentucky side, was midway between the pioneer settlements at Manchester, Ohio, and Lime-stone (Maysville), Kentucky. Cramer. *The Navigator* (ed. 1814), 131.



1. Hutchins, Pencil Sketch, *Mouth of the Little Miami River*

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	At Fort y five Min. Run on L ^t , at end of Station Water 5 Fathom, within a few Y ^{ds} of Shore on R ^t								
	N48W Fathom Feet four Min end of Stat ⁿ —	Mid. Stream. Small Run	45	3¼	220	.....	d ^o		At 15 Min. Water 2 R ^t At 31 Min. Water 8 50 Y ^{ds} out—At Thirty on R ^t Bottom on L ^t to
	N80W Min. large Run fifty six	1 Min. Run on R ^t and Bottom	½	4½	66..	.....	d ^o		Water 2 Fathom. At 33 Min. on L ^t all the Course at
	N26W Narrow Bottom	Bottom begins on	14	1	88	.....	d ^o		Water 12 Feet, very small Run on L ^t
	N6½W Stream, River 100 Y ^{ds} here	Ridge pretty wide	19	1½	419	.....	d ^o		Water 19 Feet near Mid one half Little Miamie Bottom on R ^t & Encamped
	Little Miami its mouth below swift on L ^t shore	River Gravelly mouth—this River opposite the mouth of							very Extensive Rich innes close on Banks—The River is abundance of Lime Stone.
	Sunday the 13 th July	Embarked							forty nine Min. after 5
	N4W Min. Beech R ^t this Course	Beech begins on Mid Stream, Course	16½	1½	16	....	d ^o		Water 3 Fathom, at 6 thirteen Min. Water 2½ on L ^t & large Bottom on
	N33½W Min. Bottom begins on L ^t	Bottom widens on L ^t	18½	1½	339		d ^o		Water 2½ Fathom, at 8 Stat ⁿ at 17 Min. Beech
	N54½W Strong Fathom	Water all the Course, widest	6½	½	264..	d ^o.....	.....		Water 2 Fathom. at 5½ Min. Water 2 about 200 Y ^{ds} wide.
	N88½W Shore—Current	very Swift this Course	9¾	¾	396	d ^o.....	.....		Water 9 Feet near R ^t & L ^t to end of Stat ⁿ

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S43½W Ridge sets in Y ^{ds} Water begins on Called		40¾	3¼	400	.....	.d°...	.....	Water 2½ Fathom, at 12 Min. River 400 on R ^t —at 28 Min. Bottom on L ^t 50 Y ^{ds}
	S77½W Bottom on R ^t & L ^t		11	1	11	.....	.d°...	.....	Water 2 Fathom, Bot-
	N68W narrow Bottom on R ^t Bottom on		21½	1¾	381	d°.....	.....	.....	Water 2½ Fathom, very Bottom widens on L ^t at 17 Min. Run on
	S43½W Sets in on R ^t at sixteen Min. small Run on R ^t Narrow Bottom on L ^t		28½	2½	188	.....	.d°...	.....	Water 4 Fathom. Ridge bottom begins on R ^t at nine-
	S76½W on L ^t Bottom on L ^t —At Thirty Min. end to within 50 Y ^{ds} a Cross the River to deep—At 32 Min. Narrow Bottom on R ^t and Left		44	3¼	88	.....	.d°...	.....	Water 5 Fathom. Ridge bottom on R ^t at 15 Min. Quarters of a Mile long the Channel Ten feet
	N52½W Stream, on L ^t narrow bottom on R ^t		37½	2¾	110	.....	.d°...	.....	Water 3 Fathom. Mid four Min. bottom widens
	N69½W from L ^t on R ^t shore Ridge & narrow bottom on R ^t		28	2½	108	.....	.d°...	.....	Water 8 Feet 150 Y ^{ds} on R ^t at Twenty Min. bottom widens
	N39W Stream Ridge & narrow Bottom on L ^t At Twenty Min. Bottom Widens on R ^t —At 37 Min. Ridge three Hundred Y ^{ds} on L ^t at Forty three Min. Run on		55	4	220	.....	.d°...	.....	Water 2 Fathom. Mid
	N71W narrow Bottom & L ^t to end of Stat ⁿ		29	2	308	.....	.d°...	.....	Water 5 Fathom, nar-
	S34W narrow Bottom & Ridge on R ^t Bottom on L ^t			3½		.....	.d°...	.....	Water 3 Fathom, nar-

32. The mouth of the Licking River is directly across from the bottom on which the first settlement at Cincinnati was made in 1788.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S70W widens on R ^t 200 Y ^{ds} Min. Sandy Beech begins just below the Ohio here	42	Narrow wide, at Thirty five begins on L ^t at the mouth of River—The	3¾	162	.....	d ^o....	.....	Water 12 Feet. Bottom on L ^t —At 31 Min. Big Miami River near Mid Stream, at 37 of a sandy Beech on R ^t that wide in the Broadest place, very swift—
	S43W R ^t Shore, very strong the widest place Course	24	150 Here Monday the	2¼	264	d ^o....	.....	.....	Water 12 Feet near the Beech on L ^t which is at Bottom on R ^t . All the
									we Encamped on Right Embarked 32 Min. after 6.
	S52½W Shore at Seven on R ^t one Hundred Water Twelve R ^t & L ^t to end	45	Seventeen Hundred Feet of Station—	4½	.....	d ^o....	.....	.....	Water 10 Feet near R ^t at 23 Min. Gravelly Beech Yards long—at 29 Min. all the Course—Bottom on
	S14E Run on R ^t —at the Course. No Bottom	17½	nine Min. narrow bottom with 7 Fathom this Course—	1¾	.....	d ^o....	.....	.....	At 4 Min. very large Bottom on L ^t all
	S42½E Bottom widens on R ^t at four Min. Creek on R ^t 20 the widest place L ^t —Ridge sets Gravelly Flat	77	fourteen Min. wide At 20 Y ^{ds} Broad—L ^t here on R ^t	7	97	....	d ^o	....	Water 7 Fathom—Bottom on L ^t & Gravelly Shore on R ^t at 20 Min. End of Beech on L ^t which is in rapid—At 34 Min. Run on L ^t —at 61 Min. Large
	S16½E The Island Timbered with small Land Two Hundred L ^t all the Course.	31½	two Hundred small Timber and yards wide.	3	264	d ^o	.....	.....	Water 13 Feet on L ^t —at 4 Min. End of Island near the lower end The Island very swift—Bottom on R ^t and
	S35½W L ^t at Seven Min. small L ^t At Eighteen feet Mid Stream—a narrow Channel close on	1	8½	6¼	48	.....	d ^o....	.....	Water 5 Fathom near Bottom and Ridge on L ^t At Ten Min. Narrow Water—At Twenty three Min. Water 5 aCross the River—a narrow Min. a Gravelly Island

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	on L ^t about middle of the River, at 31 Min. in. end of Island and which is almost level with the surface of the Water, & has nothing growing on it. At Forty two Min. Bottom begins on L ^t —bottom on right all the Course. At end of Course Run on R ^t —								
	S32E 7 Fathom Course. At 17 Min. it Runs th	20	1¾	140	.....	d ^o....	.....	.....	Water no Bottom with m Line—Narrow bottom and Ridge on R ^t . Ten Y ^{ds} wide at mouth. The Bot-
	S87½E Mid Stream L ^t all the Course	46	4	366	.....	d ^o....	.....	.....	Water 5 Fathom—near Twenty min. bottom widens on R ^t , River 550 Y ^{ds} , bottom on L ^t at Thirty three Min. Water Eighteen Feet—
	S70½E At 5 Min. Small Creek on L ^t	8	¾	88	d ^o....	.....	.....	.....	Water 10 Feet near L ^t —Ten Yards wide. The Current very rapid—
	S74E from from Encampment. Here Encamped in Latitu de... 38°—33' opposite a large Lick four Miles from from Encampment. Halted here Tuesday								e— ³³ This is the Nine-day
	Wednesday the 16 th								July Embarked... 44 Min. after 9—
	S43E above and narrow Bottom and below this Stat ⁿ and Ridge sets in on L ^t —Bottom	15	1½	.....	d ^o....	.....	.....	.....	The Course of the Reach at Six Min. Water 8 Feet. At 9 Min. Run on L ^t on R ^t all the Course
	S13W Mid Stream Course—At 21 Min.	23	2¼	88	d ^o....	.....	.....	.....	Water 7 Fathom near Narrow bottom and Ridge on L ^t and Bottom on R ^t all the Course—A large flat Bowld Island in Middle of Stream—
	S51½W L ^t to the Island at Twenty Min. Creek 10 Y ^{ds} wide on L ^t which Runs thro a small Bottom widens on L ^t	37½	3¾	.....	d ^o....	.....	.....	.....	Water 3 Fathom, from Island 150 Y ^{ds} Current very Rapid. At ½ a Min. the Great Lick Bottom at 9 Min. end of Island at Twenty Min. Narrow Bottom widens on L ^t Bottom on R ^t all the Course
	S20E R ^t at 6 Min. narrow bottom & Ridge on R ^t —Bottom	10½	¾	370	.....	d ^o....	.....	.....	Water 3 Fathom near R ^t all the Course

33. At Big Bone Lick in Boone County, Kentucky, members of this expedition found the bones and tusks of mastodons, as well as the remains of other prehistoric animals. Croghan sent Lord Shelburne and Benjamin Franklin specimens which aroused much scientific interest. Volwiler, *George Croghan*, 196; Cramer, *The Navigator* (ed. 1814), Appendix, 156-157.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	S30E Stream, bottom on L ^t all the Course—	at Seventeen	31	2¾ Min.	151 small	.....	d ^o on L ^t and bot-	...	Water 5 Fathom Mid bottom widens on R ^t —bot-
	S22½W is on L ^t Water	Thirteen	14	1¼ Feet	54—River at end of Course	.....	d ^o.....	.....	aCross the Bend which 380 Yards
	S83W Fathom Line, Ridge sets in on L ^t & Continues to end of Course		7½	½	110 on L ^t	.....	d ^o.....	.....	Water no bottom with 7
	N80W Fath ^m Line at fifty four Min. a Run on R ^t at	1	3½	5¾	123	.....	d ^o.....	.....	Water no bottom with 7 L ^t Bottom all the Course
	S65½W row Bottom & Water Ten feet At Thirty Seven Min. Run on L ^t Bottom on L ^t —River 500 Y ^{ds} at Twenty Seven Min. Bottom widens on R ^t —		46½	3¼	418	.....	d ^o.....	.....	Water 2 Fathom—Narrow Bottom—At 8 Min. Bottom widens on R ^t —
	S89½W Stream Narrow bottom on R ^t all the Course—		40	3	.....	.....	d ^o.....	.....	Water 10 Feet Mid Min. Bottom widens on R ^t —
	S57W Narrow bottom and Ridge sets in on R ^t Bottom on L ^t , The Channel on R ^t , widens on R ^t Water fourteen Feet, Mid Stream—At 38 Min. River 600 Yards—At Forty Min. a Gravelly beach on Right at beginning of an Island—At 45 Min. large Run on R ^t at 57 Min. Banks of the Island Pretty high & Timbered with small Timber—Bottom on R ^t & L ^t —Here we Encamped on the Island being the 20 th Encampment—		57	4¼	44	.....	d ^o.....	.....	Water 6 feet Mid Stream—At 30 Min. Bottom
		Embarked							
	S57W Mid Stream, at almost aCross the River the Course	at Eleven	45	4½ Min.	n. End the best Channel is close on R ^t	d ^o.....	.....	.....	Water 3 Fathoms near Thirty four Min a large Shole Bottom on R ^t & L ^t all
	S53W Min. Narrow bottom & Ridge on R ^t & Creek 20 Y ^{ds} Water thirteen Feet—At 42 Min. aGravelly flat Bowld Island about Middle of	1	11	7	176	d ^o	.....	.....	Channel on R ^t at 20 on R ^t at Forty Min.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	the River end of L ^t & L ^t	covered island.	Bottom	with the m widens	smaller ons on	st Flood R ^t —At	d. Ch t 65 M	channel in. River	on R ^t & L ^t at 3½ Min. er 450 Y ^{ds} Bottom on
	S74W Stream, Kentucki	at Twen- ty River	33½ on L ^t	3 three M 100 Y ^{ds}	113 in. Ridge wide	 R ^t near opposi	d° R ^t near the	 half River	Water 13 Feet near Mid a mile—At End of Course on R ^t Bottom widens—
	N67½W Min Creek	on L ^t	34 20	2¼ Yards	—at Twen- ty	 d° Min.	 Narrow	 bottom & Ridge on L ^t	Water 5 Fathom—at 12 Min. bottom & Ridge on L ^t
	N34W at Twen- ty One three Min. end of the Course	On Min. of beech	53 —at	4¾ Bottom 41½	171 m widens on L ^t —G Min. small	 d° L ^t —G Min. small	 Creek	 Creek	Water 12 Feet near L ^t beech on L ^t at Thirty on R ^t Bottom on R ^t all
	N83½W R ^t Narrow	bottom	40 —	3 and Ridge	on R ^t Bot- tom on	 d° L ^t all	 L ^t all	 the Course	Water 3 Fathom near the Course
	S77W Stream— all the	River Course—	49½ 680	4½ Yards—	50 Narrow	 d°	 d°	 Ridge	Water 14 Feet Mid on R ^t and bottom on L ^t Encampment
			Embarked	Fryday	18 th July	44 ½ Min	after 6.		
	S77W on R ^t bot- tom	on L ^t —	11½ 1	91	 d°	 d°	 d°	 d°	Narrow bottom & Ridge
	N78W Stream— At 35 M	Bottom in. bot- tom	40 —	3½ widens begins	on R ^t Nar- row bot- tom on	 d°	 d°	 d°	Water 12 Feet Mid Ridge on L ^t River 600 Y ^{ds} Course—
	S69½W on R ^t & L ^t	all the	19 Course—	1¼ —	308	 d°	 d°	 d°	Water 15 Feet. bottom
	S32W Ridge sets Min. Gravelly At end	in on R ^t beech on L ^t Shoal	34 —	2½ which ends—	88 contin- ues with occasio	 d°	 d°	 d°	Water 3 Fathom, high L ^t to end of Stat ⁿ at 25 almost a cross the River.
	South R ^t —high on L ^t —	Ridge sets in on	22 —	2 L ^t Bot- tom	352 widens	d°	 d°	 d°	Water 2 Fathom near 15 Min. bottom begins



2. Hutchins, Pencil Sketch, *Mouth of the Kentucky River*



3. Hutchins, Pencil Sketch, to illustrate *Course "S2611"*

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S27E Stream. but the bottom on L ^t to end of Stat ⁿ —		40½	3	66	.....	.....	d ^o	Water 7 feet Mid R ^t and continues with
	S3½E Ridge Sets in on R ^t River 700 Y ^{ds} —	1	10	5¼	.....	.....	.....	d ^o	Water 10 Feet. High on L ^t —Bottom all this Course
	S31½E High Ridge on R ^t and bottom on L ^t all the course—	1	...	4½	.....	.....	.....	d ^o	Water 10 Feet near R ^t
	S3W Bottom on L ^t and Ridge on R ^t At Thirteen Min. small Run on L ^t		35	2½	220	.....	.....	d ^o	Water 10 Feet near L ^t —om begins on R ^t —At 30
	S55W on L ^t at Twelve Min. that divides the L ^t bottom on R ^t all the Course—	1	8	5	176	.....	.....	d ^o	High Ridge Sets in on L ^t —At 27 Min. large Run on R ^t At 64 Min. bottom begins on R ^t
	S26W Ridge on R ^t & Fath ^m at 58 Min. Island close on L ^t 400 Y ^{ds} Broad with bushes and small Timber	1	.....	4½	.....	.....	.....	d ^o	Water 16 Feet, High on L ^t Water 4
	En camped on the Island the 22 nd Encampment								
	Satur day the 19 th July Embarked.....								24½ Min. after 8
	S76½W Ridge on L ^t Bottom on R ^t —At Eleven Min. Water fourteen Feet Mid Stream—At Forty five Min. Ridge sets in on R ^t —Log Run out in ¾ of a Min., at 81 Min. bottom widens on L ^t —Went this Course at the Rate 3½ Miles an Hour	1	32½	5¼	.....	.....	.....	.....	Water 10 Feet near L ^t —end of Island—At 38 Min. Run on R ^t At 56 Min. at 81 Min. bottom widens on L ^t —Went this Course at the Rate 3½ Miles an Hour
	S41W Stream—Ridge on R ^t that divides the Hour		41..	2¼	.....	.....	.....	.....	Water 4 Fathom Mid Course—at end of Course Run at the Rate of 3½ Miles an
	S7W on R ^t bottom on L ^t at Thirty two Min. River	1	11½	5¼	198	.....	.....	d ^o	Water 5 Fathom, Ridge Narrow bottom on R ^t

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	at 39½ on L ^t —At Sixty nine	Min. 1	Island near Mi	ddle of River	—Channe	near the Island—a Shoal			
	bottom on L ^t —At Sixty nine	Min. 1	Island near Mi	ddle of River	—Channe	near the Island—a Shoal			
	bottom on L ^t —At Sixty nine	Min. 1	Island near Mi	ddle of River	—Channe	near the Island—a Shoal			
	S22½W bottom on L ^t —	18½	1...	400	.....	.....	.....	.....	Water 12 Feet near L ^t —
	S24W L ^t —At end of	19	1¾	267	d°....	.....	.....	.....	Water 5 Fathom near R ^t & L ^t
	S33½W Mid Stream—Min. large Run Y ^{ds} from R ^t Shore—	18½	1½	338	.....	d°....	.....	.....	Water 5 Fathom near R ^t of River—Island 200
	S33½W on R ^t —at 20 80 Y ^{ds} —	22	2	22	.....	d°....	.....	.....	At 16 Min. small Run widest part of which is
	S22½W Stream bered.	39	1¾	.....	.....	.....	.....	.....	Water 12 feet Mid level land on R ^t and L ^t —
	S57W ½ Mile wide—	1	10	5¼	.....	.....	d°....	.....	Water 3 Fathom. River
	N80W the end of this Survey follows	4	¼	204	.....	d°....	.....	.....	to the shore on R ^t at the 23 rd Enca mpment) I began my side of the River as
	S63½W	.....	.....	.....	272	.....	.....	.....	
	S74¾W	.....	.....	.....	323	.....	.....	.....	
	N79¼W	.....	.....	.....	357	.....	.....	.....	
	N65½W Creek on oppo site side of R iver bears S28½W, Upper end of Island bears S49.10 W—at end of course Creek bears S12W—Upper end of Island bears S34.28 W—	.....	.....	.....	340	.....	.....	.....	at beginning of Course

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N62¼W begins a	Steep	bank of	lime	.476	on R ^t	all the	Course	At 340 Y ^{ds} the Rapid
	N55¼W bank on ginning of the C	Right of Course	looses it self lower end of the	¼ .274 and a bears	bank of earth 12 feet high begins—at be- S70W, and at the end	S32.45 W—			
	N43.30W Ripples 510 Y ^{ds} of this with gre	with great Violence a wide opening in the Violence at Swift	Violence in the Violence for up	¼ .189 over Rocks below the Surface of the Water—At		Rocks that forms an Island in the River—at end			At 255 Y ^{ds} the Water
	N45½E				.170				
	N26½E Run & Spring	on R ^t			.153				At 102 Y ^{ds} a very small
	N24¼W Spring				.85				At 34 Y ^{ds} a Pretty large
	N61.33W Swift Water—				.153				At end of Course very
	N70¼W kading over Rocks—				.374				At 119 Y ^{ds} a Run cas-
	N50E				.68				high bank 20 Y ^{ds} on R ^t
	N16E with Timber				.136				Over Sandy low land
	N27W				.51				
	N36W				.208				Rocky bank on R ^t —
	N66W				.144½				bank close on R ^t —
	S88W Course S36¾W	an opening and at end of	in the Island Course	that I brought my Boat	.289	through			At beginning of this
									at the end of which bears

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	N83½W on R ^t to Eight Degrees	where our Battoe	& Eight Minu	tes—	221	The end of this	Course		high Rocky bank close is in Latitude Thirty
	N58¼W Course at which beginning of the	aCross the Ri- ver to the other side is S42W and at end of the Course to Intersect the one at	the Ri- ver to the other side is S42W and at end of the Course to Intersect the one at	the Ri- ver to the other side is S42W and at end of the Course to Intersect the one at	297½	The Course aCross the River to Intersect the one at	the Course aCross the River to Intersect the one at		At beginning of this Course to Intersect the one at
	N58¼W Lower Island aCross the River bears S30½W—	from the Run at beginning of this Course bears S47W—A Tree aCross the River bears S34¼W—	from the Run at beginning of this Course bears S47W—A Tree aCross the River bears S34¼W—	from the Run at beginning of this Course bears S47W—A Tree aCross the River bears S34¼W—	255 further	at beginning of this Course bears S47W—A Tree aCross the River bears S34¼W—	at beginning of this Course bears S47W—A Tree aCross the River bears S34¼W—		The upper end of the bears S47W—A Tree aCross the River bears S34¼W—
	S78½W course bears S38½W	Tree aCross the River bears S38½W	Tree aCross the River bears S38½W	Tree aCross the River bears S38½W	306	the River bears S46½W and at end of Course same Tree	the River bears S46½W and at end of Course same Tree		At beginning of this end of Course same Tree
	S79½W Creek on R ^t Twenty	Creek on R ^t Twenty	Creek on R ^t Twenty	Creek on R ^t Twenty	¾	yards wide. all this Course over	yards wide. all this Course over		At end of Course a flat Rock—
	Thursday the 24 th Island to Right of the	Sunday, Monday, Tuesday and Wednesday remained at the Falls ³⁴	Sunday, Monday, Tuesday and Wednesday remained at the Falls ³⁴	Sunday, Monday, Tuesday and Wednesday remained at the Falls ³⁴					
	S61W Island 60 Y ^{ds} on R ^t Left Shore 180 Y ^{ds} —	6½	½	264	d°				At end of Course the
	N82W a little all this	below the Middle of this Island the bank is pretty high, and Timbered on R ^t & L ^t —	below the Middle of this Island the bank is pretty high, and Timbered on R ^t & L ^t —	below the Middle of this Island the bank is pretty high, and Timbered on R ^t & L ^t —	17	1½	352	d°	At 6 Min. end of Island
	S34W R ^t River 4 Fathom Mid and Level on R ^t —	700 Y ^{ds} at Ten Min. Run on R ^t Rippling over a Rocky shore on R ^t end—low land on L ^t	700 Y ^{ds} at Ten Min. Run on R ^t Rippling over a Rocky shore on R ^t end—low land on L ^t	700 Y ^{ds} at Ten Min. Run on R ^t Rippling over a Rocky shore on R ^t end—low land on L ^t	13	1¼	88	d°	Ridge a little way to the

34. During these four days at the present site of Louisville Hutchins secured data for a detailed map of the Falls, which became the authoritative one. Hutchins, *Topographical Description*, 10 (note); Gilbert Imlay, *Topographical Description of the Western Territory* (London, 1793), 50-51; *Ante*, Frontispiece. George Morgan, doubtless experienced in the difficulties of navigating these rapids, unloaded a third of the cargo in order to get the boats safely through. Captain Gordon, with a prophetic if somewhat limited vision, strongly recommended the establishment of a "Serjeants Post" here. *Journal of Captain Harry Gordon*, 467-468. Croghan, still cautious, dispatched additional Indian deputies, this time to the mouth of the Wabash, to find out whether the emissaries he had already sent had successfully counteracted French intrigues. Croghan to Gage, January 16, 1767, *Ill. Hist. Coll.* XI, 488; note 29, *ante*; note 36, *post*.



4. Hutchins, Pencil Sketch, Mouth of the Tallow (Salt) River

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S5½W on R ^t Water	12	16 Feet	1¼ Mid	376 Stream	.....	d ^o.....	.....	At 10 Min. Rocky Shore
	S5½W Rocks on R ^t low land		14	1¼ all the	54 Course	.....	d ^o.....	.....	At 10 Min. end of the
	S43½W Stream—At 17 Min. R ^t and L ^t all the Course an hour			4 Water	10 Feet 150 Y ^{ds} from R ^t small R ^t on L ^t—	.....	d ^o.....	.....	Water 14 feet Mid River 660 Y ^{ds} —Level on L ^t —all this Course at 4
	S16W At 12 Min. small R ^t level land on all the Course		25	1¼	220 R ^t —a high Ridge and Nar- row bottom Sets in L ^t all the Course— and Nar- row bot- tom and Ridge on R ^t	.....	d ^o.....	.....	Water 16 Feet near R ^t
	S4E Stream—At fourty four Min. Mid Stream—Level land on		58	5¼	98 Bot- tom widens on R ^t At 55 Min Water 10 Feet L ^t all the Course	.....	d ^o.....	.....	Water 16 Feet Mid
	S16½W to the Right with narrow bot- tom. —Level land with high banks all		27½	2	110 Water 14 feet the Course on L ^t	.....	d ^o.....	.....	At 18 Min. Ridg a little Ridge hear appears lower
	S7½W Stream—Nar- row bot- tom & level land with high banks on left—		41	3¾	Ridge on R ^t At Ten Min. high banks on left—	.....	d ^o.....	.....	Water 10 Feet Mid bottom widens on R ^t
	S40W River 50 Y ^{ds} Level land on R ^t and L ^t all the Course		20½	1¾	220	.....	d ^o.....	.....	Water 18 Feet near L ^t —
	S68½W Stream this Course a wide cal- led Tal- low River high Ridge on left below the Ohio—		19½	1¾	59 Cross the bend on L ^t —At 12 Min. a River on L ^t 75 Y ^{ds} River ¼ Mile from the	.....	d ^o.....	.....	Water 14 Feet Mid
	S80W Channel on L ^t on R ^t bot- tom—A Rid- ge 120 Y ^{ds} on R ^t Bot- tom—		22	2	352	.....	d ^o.....	.....	At 6 Min. beech on R ^t — at 14 Min. Ridge close ped—at 24 th Encamp- ment with high banks
	Fryday the 25 th July Embarked					5½ Min. after 10 o'Clock			

COURSES OF THE OHIO RIVER, 1766

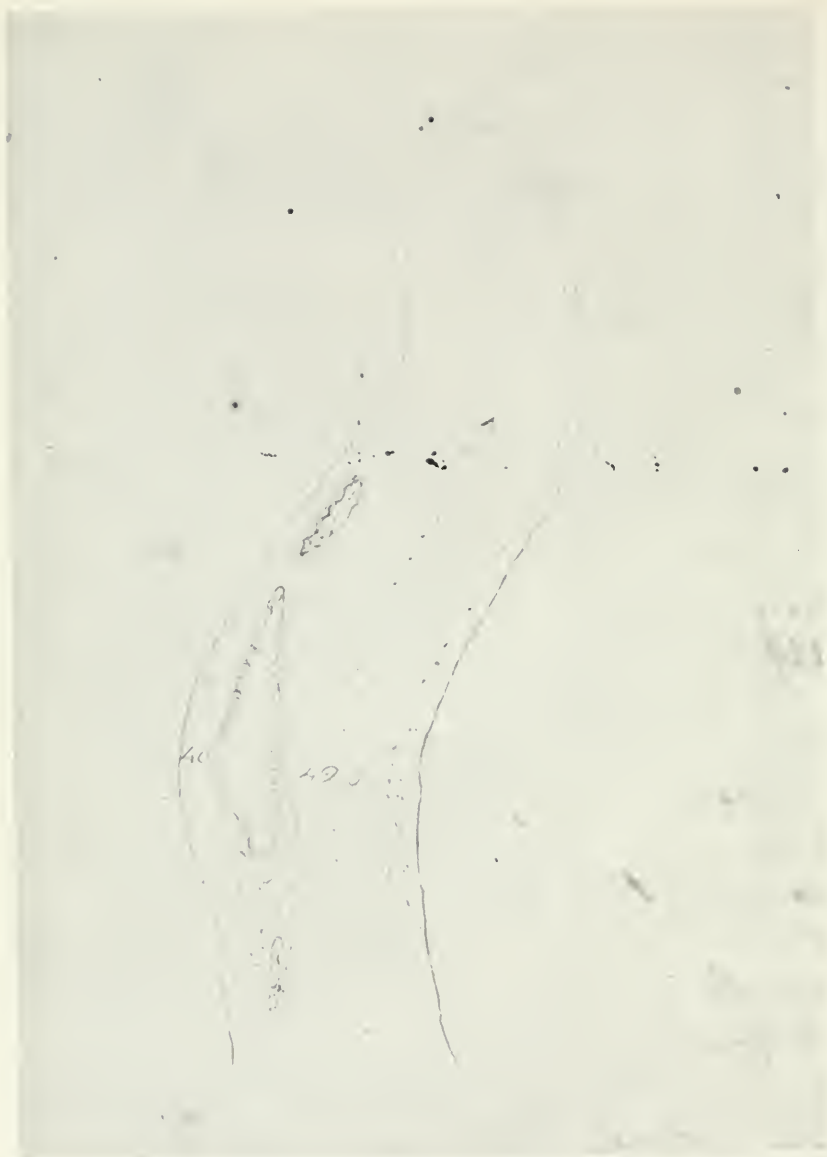
N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S71W ens on R ^t at 17 Min. on L ^t at end of Course		37 ½	3 ¼	317	.....	d°	.....	At 5 Min. bottom widens 20 Min. bottom widens at 34 ½ Min Run on R ^t —
	S1½W Stream Rocky shore ends,	370 Y ^{ds}	26	2 ¼	226	.....	d°	.....	Water 4 Fathom. Mid high banks—At 17 Min. Min. small Run on L ^t —
	S54W on L ^t 400 Y ^{ds} Course, at 6 Min.		11	¾	132	.....	d°	.....	aCross a bend The bend —Bottom on R ^t all the
	N46½W fathom line, Ridge on the Course—		11	1	11	.....	d°	.....	Water no bottom with 5 course Rocky shore on left
	N31W Stream—at 23 Min. R ^t —at 34 Min.		42	3 ¼	162	.....	d°	.....	Water 18 Feet Mid Course Ridge Sets in on
	N51½W Stream—Ridge on R ^t Timber—bottom on L ^t all the Course—		11	¾	132	.....	d°	.....	Water 22 Feet Mid some Cedars and other
	N77W Steep Ridge on R ^t all the course all the Course—At 10 Min.		23	2 ¼	88	d°	.....	.....	Water 21 Feet near R ^t small Run on L ^t bottom on L ^t
	S80W Channel on R ^t Ridge on R ^t and bottom on L ^t —At 14 Min. Min. beech on R ^t at 32 Min. At 35 Min. end of Beech on R ^t —Bot		41 ½	3 ¼	81	.....	d°	.....	Water 12 Feet. The Min. beech on L ^t At 24 Min. Run on L ^t which is a small Run on L ^t and Ridge on L ^t —
	N64W At 8 Min. small Run on R ^t River L ^t At 44 Min. Narrow bottom and Ridge on R ^t at 76 Min.	1	37	7 ¼	44	.....	d°	.....	Water 12 Feet on L ^t — Min. bottom widens on Run on L ^t at 70 Min. bottom and Ridge on L ^t —
	N14½W Ridge close on L ^t Bot widens on L ^t —		42	3	264	.....	d°	.....	Water 14 Feet near L ^t — Mid Stream, bottom

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N2½E Stream R ^t —at Six	16	16	1½	176	d°... Yards	on R ^t —At 8		Water 9 Feet Mid Min. bottom widens on
	N11E bottom on R ^t Narrow	11	1	1	176	d°... Ridge on L ^t ,			Water 11 Feet near R ^t —
	Encamped on R ^t at 25 th					Enca mpment			
	Sat uryday 26 th July Embarked					45 Min. after			7 oClock
	N11E on R ^t At three	25	Min.	1¾	220	d°... L ^t bottom on			At one Min. small Creek on R ^t all the Course—
	N40W narrow bottom & steep Rocky Ridge on R ^t & bottom	23		1½	396	d°... on R ^t & bottom			Water 17 Feet on R ^t , on L ^t all the Course—
	N51W Bottom on L ^t Narrow bottom and high steep Ridge on R ^t At 7 Min. a low	1	7	6	247	d°... Ridge on R ^t At 7 Min. a low			Water 10 Feet near L ^t steep Ridge on R ^t At 7 Min. a low
	Gravelly Island on L ^t 15 Feet—High Ridge on R ^t at 42 Min. end of Island. This Island is Timbered, has high banks on R ^t is a Creek 15 Y ^{ds} from this Island 150 Y ^{ds} from the River—The Good Spot to Enca mp on—Opposite the end of the Island—Channel near R ^t & L ^t bottom begins								
	S87W close on R ^t this Course—At	6½	½	½	166	d°... Course Several large			Water 12 Feet Ridge Rocks at edge of
	S45½W Fathom, beech on left end—a Number of pretty large Stones along Shore on R ^t and Ridge all this Course—River 400 Y ^{ds} , fine sandy shore on L ^t	14	1	1	88	d°... of pretty large Stones along Shore on R ^t and Ridge all this Course—River 400 Y ^{ds} , fine sandy shore on L ^t			Water no bottom with 5
	S1½E with 5 fathom River on Shore. fine Sandy Ridge on R ^t all the Course and a number of large Stones on L ^t At 14 Min. end of Sandy Shore	17	¾	¾	176	at three e Miles an Hour Water no bottom on R ^t all the Course and a number of large Stones on L ^t At 14 Min. end of Sandy Shore			
	S39E on R ^t all the Course, River	11		½	88.	at 3 Miles an Hour. Water 20 Feet—Ridge			

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	S79½E Stream Rocky	River Ridge	28 300 Y ^{ds} sets in	2¾ at 18 Min. on L ^t —	88 bottom on R ^t —	d ^o . bottom on R ^t —	bottom widens on R ^t —		Water 20 Feet Mid R ^t At 15 Min. High Steep
	S47½E Stream—high	steep	5 Rocky	½ Ridge	 Ridge	d ^o . on L ^t —	 bottom on	 on	Water 18 feet Mid R ^t —
	S3E L ^t bottom on	R ^t —	9 R ^t —	¾ 169			d ^o		Water 18 feet Ridge on
	S22W Fathom—Steep	Ridge on L ^t —	12 1	172 and bottom	 on R ^t —	d ^o . all the	 Course—		No bottom with 5
	S43W Fath ^m Ridge	on Left, bottom	12 ¾	264 on R ^t—	..... .....	d ^o			Water no bottom with 5
	S83W Steep Ridge in on R ^t —	on L ^t bottom begins on	48 3½	176 on R ^t —	 —River 500 Y ^{ds} at	d ^o			Water no bottom, High 38 Min. High Ridge sets
	S49W Stream—Ridge	on R ^t —	7½ ¾	327 bottom on L ^t —	 d ^o				Water 12 Feet Mid all the Course—
	S17½W Stream—Ridge Run on L ^t —	on R ^t —	24½ 2	424 bottom on L ^t —	 At 19 Min. bottom	d ^o			Water no bottom Mid R ^t large
	S82W Ridge on L ^t bottom	on R ^t —	7 ½	352 —	d ^o				Water no bottom—
	N53W Stream—Ridge Min. bottom a little	on L ^t bottom begins on distance on	39 3½	119 bottom on L ^t Small Creek on L ^t —	 R ^t —Rocky shore on R ^t At 30 Min. River 600 Y ^{ds} Ridge	d ^o			Water 26 feet Mid L ^t all the Course—At 20 Min. River 600 Y ^{ds} Ridge
	N80W Ridge on R ^t bottom	on L ^t —	14 1¼	54 —	 d ^o				Water 10 Feet near R ^t —
	S54W Ridge on R ^t bottom	on L ^t —	16 1¼	376 —	 d ^o				Water 27 Feet near R ^t —



5. Hutchins, Pencil Sketch, to illustrate *Course "S79W"*

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S12½W —Ridge R ^t —	on R ^t	14 botto	1¼ m on L ^t —	54 At	 end of	d° Course	 a Nu	Water no bottom on R ^t umber of Rocks close on
	S27½E 480 Y ^{ds}	Ridge	11 on R ^t	1 botto	11 m L ^t —	 Rocky	d° shore	 on R ^t	Water no bottom—River all the Course—
	S65E Ridge and bottom begins on L ^t —	Rocky shore on R ^t	25¼	1¼ At 22	286 Min. s	 R ^t —botto	d° m on L ^t —	 River L ^t At	Water no bottom— 380 Y ^{ds} —At 20 Min. 25 Min. Ridge little dis-
	S42½E R ^t —		5	¼	365	.....	d°	.....	Water no bottom near
	Here Sunday	we encamped the 27 th July		on L ^t Embarked	of the 11½	River Min. after 6	at 26 th oClock	Encampment	
	S42½E R ^t —		7½	¾	.....	d°	.....		Ridge on L ^t Bottom on
	S12½W Y ^{ds} from Min. sm	m L ^t Rocky shore on left	22	2	22	 At 2	d° Min.	 botto	Water no bottom 100 m widens on L ^t —At 20
	S54½W left—at widens	7 Min. Ridge on L ^t At end	25½	2½	88 Y ^{ds} on	d° L ^t —level	 land on	 R ^t At 11	Water 20 Feet near Min. bottom Timbered, & with high banks
	S79W Stream— end of At 17 end of end of	from Island at 17 Min. Gravelly on R ^t botto	39	3¾	264 Min. River begins on	d° R ^t 420 600 Y ^{ds} , at 2	 Y ^{ds} —Ridge left and Cont	 Bottom	Water 14 Feet Mid sets in on L ^t —at 15 Min. sandy beech begins on R ^t continues 4 Min. At 26 Min. on R ^t all the Course. at
	S26W Stream— stat ⁿ —	Ridge sets Rocky Shore	8	¾	88	d° continues	 with level	 land on L ^t	Water 14 Feet Mid to end of
	SSE Stream—	Ridge and	1	8	6	408	d° level land	 on L ^t —	Water 23 Feet Mid at 6 Min. small Run

COURSES OF THE OHIO RIVER, 1766

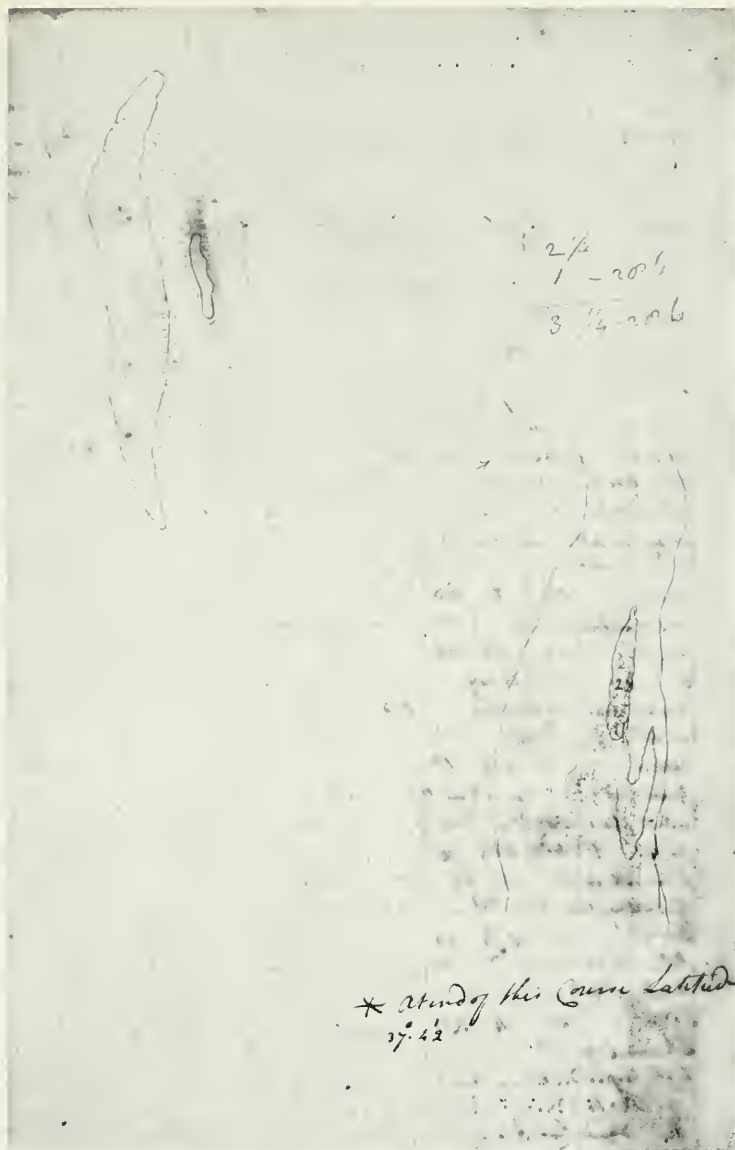
N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	on R ^t with a Stone bridge over it—run- ing thro' small bottom—at 14 Min.								
	level land on R ^t and Rocky shore ends—At 22 Min.								Water 10 Feet 100 Y ^{ds}
	from L ^t At 40 Min. a Shoal 100 Y ^{ds} from Shore on R ^t At 65 Min. Run on R ^t								
	S26½E Stream—level bottom widens		37	¾	237	.....	d ^o		Water 14 Feet Mid ch on L ^t —At 10 Min.
	Narrow bottom on R ^t and Ridge on R ^t —					At 5 M in. Sandy beech on L ^t ends—at 25 Min.			
	S28W Ridge sets in on L ^t —River		10	¾	290	.....	d ^o		Water 28 Feet on L ^t bottom on R ^t all the Course
	S59W Min. bottom begins on L ^t —at 18 Min. small Creek on L ^t bottom on R ^t		25	¼	65	.....	d ^o		Water no bottom—at 11 Min. Run on R ^t —level all the
	N86W Stream—at 2 Min. widens on R ^t		49	¼	409	.....	d ^o		Water 16 Feet Mid Ridge on L ^t At 20 Min. Run on R ^t —level all the
	Course on R ^t					end—At 30 M in. Run on R ^t —level all the			
	S24½W Ridge & narrow bottom on R ^t —Rocky shore on R ^t level land on L ^t		9½	¾	209	.....	d ^o		Water 13 Feet near R ^t —
	South R ^t —narrow bottom and Ridge on R ^t —at 33 Min. bottom begins on R ^t —at 37 Min. Ridge on L ^t —	1	2½	5½	402	.....	d ^o		Water no bottom near R ^t —At end of Course
	S52½W on R ^t At 21 Min. bottom widens on L ^t —At 34 Min. large Run on L ^t —River		43	¾	323	.....	d ^o		
	600 Y ^{ds} —								
	N72W L ^t this Course a Cross the bend—at 13 M in. beech on R ^t —At end of Course		20	2	.....	d ^o			Water 11 Feet close on R ^t —At end of Course
	Ridge on L ^t —bottom on R ^t all the Course								
	N8½W L ^t —Narrow bottom and Ridge on L ^t —at 5 M in. end of the beech which is in		18	½	258	.....	d ^o		
	the middle 100 Y ^{ds} broad—bottom on R ^t —								
	N12E Stream—narrow bottom & Ridge on L ^t level land on R ^t —at 15 Min. bot-	1	1	4½	132	.....	d ^o		Water 24 Feet Mid ch on L ^t —At 15 Min. bot-

COURSES OF THE OHIO RIVER, 1766

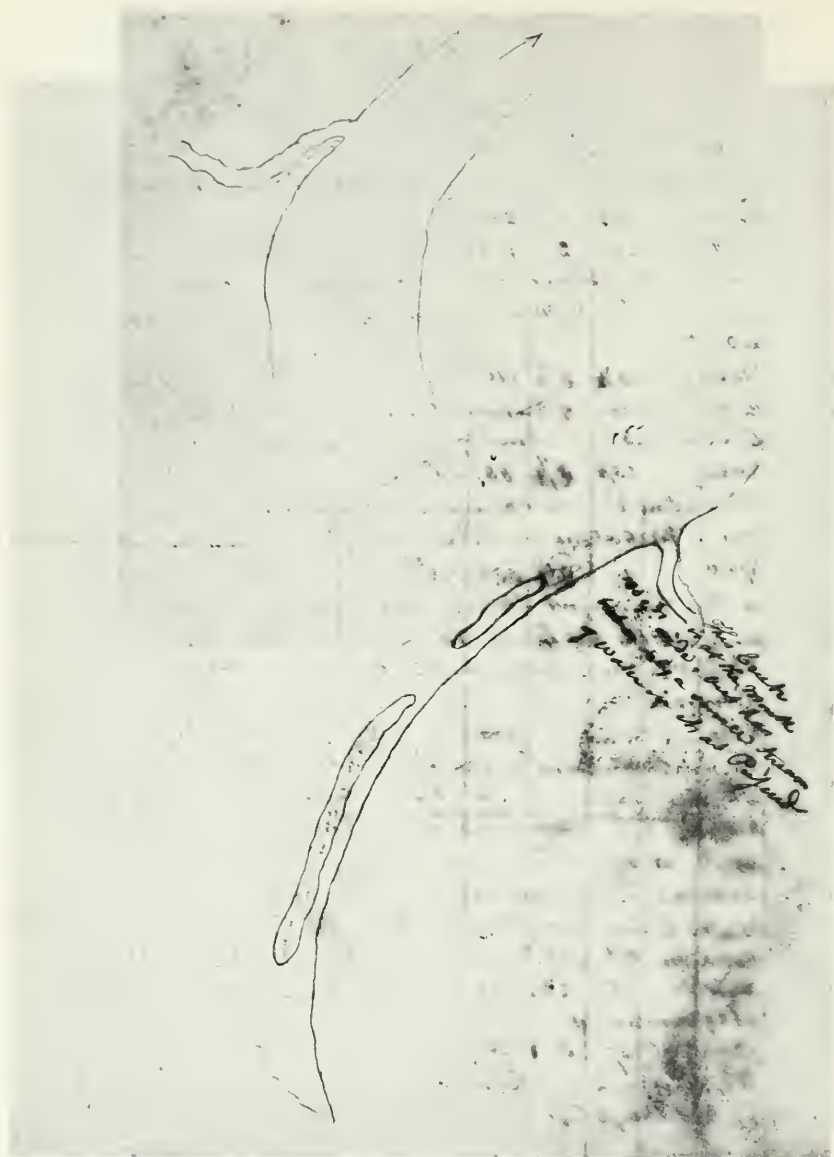
N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	tom widens on R ^t at end of Course—	ens on R ^t at end of Course—	L ^t —at 50 Min. of Course—	50 Min.	n. River	er 650 Y ^{ds}	B	ottom	on R ^t all the Course Run
	N74½W R ^t At 6 widens on R ^t Course—	Min. Rocky At 23 Min. on R ^t Course—	24½ 2¼ 352 .d°	2¼ 352 .d°	—narrow bottom on R ^t end of Rocks—	.d°	.d°	.d°	Water 10 Feet close on R ^t —at 18 Min in bott ^m —bott ^m on L ^t all the
	S55W At nine These Rocks are 15 feet above the Min. Seven a Small Rock on R ^t Bottom	min. a Number of large Rocks are mostly in the Water—on large Rocks on R ^t and a Remarkable one on R ^t —at end of	46½ 4½ 264 .d°	4½ 264 .d°	large Rocks on Shore and Cluster on Top of which 3 of which are close together—at 32 Min. on [e] in the Water near the Edge of Shore on L ^t —	.d°	.d°	.d°	Water 22 Feet near R ^t —(Ridge sets in on R ^t) 10 Y ^{ds} in the River and a few low bushes At 23 Min. close together—at 32 Min. water near the Edge of Shore on L ^t —
	N64W Stream of Course	—River Number of Rocks on L ^t —	13½ 22	 22	Bottom on R ^t and Ridge on Shore—	.d°	.d°	.d°	Water 14 Feet Mid L ^t all the Course—at end
	N45½W Stream here abouts the low lands	—at end of Course the low lands	2 264	 264	Ridge on L ^t Level and on Encamped at the	.d°	.d°	.d°	Water 16 Feet near Mid R ^t River about 400 Y ^{ds} —27 th Encampment—
	Monday	the 28 th July	embarked	3½ Min. after 5 o	Clock—				
	N45½W At 11½ Min. Mid Stream	Min. bottom River	24½ 2 424	2 424	on L ^t , here the low lands begin. Water 22 Feet, on L ^t —	.d°	.d°	.d°	Water 22 Feet, on L ^t —
	N30W from L ^t Min. Rocks on Y ^{ds} At Island L ^t all the on R ^t —	at 15 Min. a low Hill on shore on R ^t At 36 Min. a small Flat at end of this Course—Ch	1 22 7½ . . 20	. . 20	on R ^t At 20 Min. Water 8 Feet close on R ^t level land on end of Course Rocky shore	.d°	.d°	.d°	Water 10 Feet 150 Y ^{ds} om begins on R ^t —At 31 Min. Mid Stream, River 600 Y ^{ds} —at 47 Min. end of the ridge on R ^t level land on end of Course Rocky shore
	N65½W Stream	—at 5 Min. bottom	23 2 183	2 183	widens on R ^t —at 16 Min. Small Creek on R ^t —	.d°	.d°	.d°	Water 14 Feet Mid Small Creek on R ^t —
	S69½W Stream	—Ch	23 1½ 396	1½ 396	beginning of Course Sandy beech on L ^t 100 Y ^{ds}	.d°	.d°	.d°	Water 15 Feet Mid Sandy beech on L ^t 100 Y ^{ds}

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	wide Rocks, narrow bottom and Ridge on R ^t At 16 Mi n. bottom widens on R ^t — level land on L ^t , at end of Course Water 23 Feet Mid stream—								
	S42½W 1 10 6¼ 290 d ^o At 23 Min. Sandy beech on L ^t River 650 Y ^{ds} Channel on R ^t —At 62 Min. end of beech which is in the widest place 200 Y ^{ds} —River 700 Y ^{ds} Level on R ^t & L ^t the Course								
	S71½W 1 31½ 6¾ 198 d ^o ... Water 8 Feet Mid Stream—Channel on R ^t At 30½ Min. Latitude is 38° ely beech on R ^t —At 65 Min. Sandy beech on L ^t — 00'—at Middle of a Grav-								
	S52W 45 3¼ 220 d ^o ... Water 15 Feet 200 Y ^{ds} from R ^t —At 20 Min. end of the beech which is in the on R ^t and L ^t all the Course— widest place 200 Y ^{ds} level								
	S1½W 56 4 352 d ^o ... Water 8 Feet Mid Stream Channel on R ^t At 10 Min. Run on R ^t At 15 Min. a Remarkable high perpendicular Rock in the bank of River on R ^t which extends to Edge of the Water, has several small Rocks at its foot, and Top of this Rock grows Timber which at some little distance appears like a Small hill								
	S16W 1 1 4½ 132 d ^o ... Water 16 Feet 200 Y ^{ds} from L ^t level on R ^t and L ^t all the Course—River 700 Y ^{ds} At 41 Min. Island close on R ^t —large Run on L ^t At 4 Min. high banks on Island Timbered—at 54 Min. end of Island—at 62 Min. an Island on R ^t								
	S52½W 30 2¼ d ^o ... Water 10 Feet Mid Stream—At 5 Min. bank of Island with Timber begins, here we Encamped at 28 th Encampment—								
	Tuesday the 29 th Embarked 12 Min. after 5 oClock—								
	S52½W 15½ .. 1 .. 286 d ^o ...								
	N71½W 24½ 2 424 d ^o ... Water 22 Feet close on L ^t —from L ^t shore to beech of Island 400 Y ^{ds} —beginning of this Course the bank & Timber of Island ends—at 7 Min. end of beech of Island—River 720 Y ^{ds} —level on R ^t and L ^t								
	N22½W 33½ 3¼ 176 d ^o Water 14 Feet Mid Stream—at 12 Min. the bank of River on L ^t a Solld Rock for 308 Y ^{ds} at ¼ Mile on L ^t a low Ridge—At end of Course an Island close on L ^t								



6. Hutchins, Pencil Sketches, to illustrate important stretches, Courses "S521 1/2 II" to "S66 1/2 II"



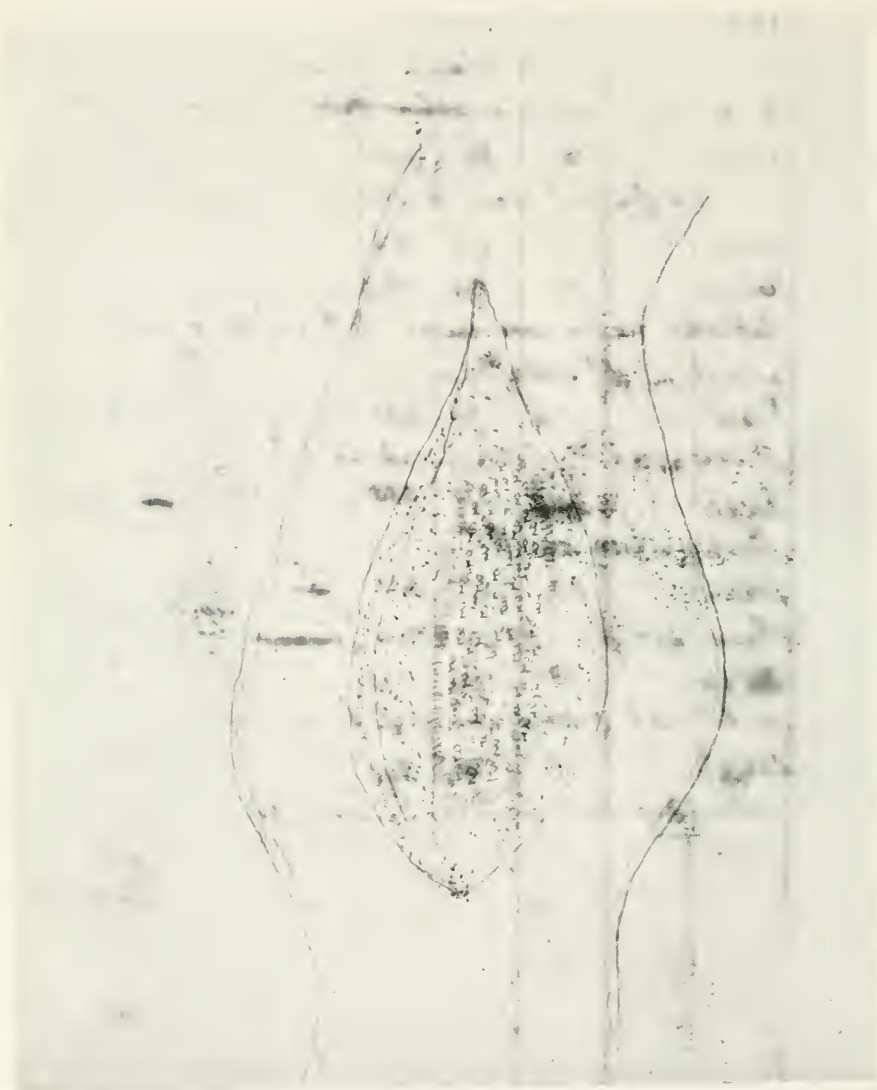
7. Hutchins, Pencil Sketches, to illustrate channel, Courses " $S40^{\circ}W$ " to " $N22\frac{1}{2}^{\circ}W$ "

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	N30½W Stream—Channel on R ^t — Min. a beech along the Isla		25½	2½	88... at 5 M and 250	d°... in. bank Y ^{ds} wide—			Water 8 Feet Mid begins on Island At 21
	N74W on R ^t the Cur- rent Strong. Channel on R ^t At Island has but low banks. Water 14 Feet Mid Stream— Min. Rocky shore on R ^t . Shore on R ^t low bank all the Course—		17	4½	352... Channel on R ^t Water 14 Feet Shore on R ^t low	d°... At 19 Min. Mid Stream— low bank all			At 11 Min. Rocky shore end of Island this —Channel on R ^t —at 30
	N43W Island on R ^t this L ^t this Island is Tim- bered				700 Runs a Cr and its banks				at 100 Y ^{ds} Point of within 100 Y ^{ds} of shore on
	N58½W 100 Y ^{ds} —at 3 Water 12 Feet 200 Y ^{ds} from R ^t — long on which		32½	12½	at 5 Miles in. end of Island— at 138 Min. in a high Rock of				from Island to shore on R ^t the Channel is near L ^t shore At 50 Min. large Run on R ^t Water 6 Feet Free stone in bank on R ^t 150 Y ^{ds}
	N79W from R ^t At 29 of this Course		38½	2¾	142 Island close Latitude 37° 42'		d°... and wide		Water 14 Feet 100 Y ^{ds} beech on L ^t shore—At end
	S66½W from R ^t At 15 Island—Current		37	3¼	237 200 Y ^{ds} out in the Shoale very Strong—	d°... in the River			Water 14 feet 100 Y ^{ds} At 33 Min. end of the
	S40W from R ^t Channel on Junction it overflows,		45	3¼	220 R ^t —At 41 M and for some	d°... in a large River on distance below it			Water 8 Feet 200 Y ^{ds} L ^t 240 Y ^{ds} wide, ³⁵ at the in afresh—
	S85W Stream—high bank —At 8 Min. beech on R ^t At 15 M		22	1½	264 but lowers soon— in. the beech	d°... At ½ Mile on L ^t a low Ridge Joins an Island on R ^t —			Water 16 Feet Mid At ½ Mile on L ^t a low Ridge Joins an Island on R ^t —
	N72W from L ^t at 4 M in. a beech 80 Y ^{ds} wide—		38	2¾	176 beech goes out from the	d°... Island 250 Y ^{ds} at 18 Min.			Water 18 Feet 150 Y ^{ds} Island 250 Y ^{ds} at 18 Min.
	N22½W from L ^t —at 10 Min. Island		16½	1½	16 beech on R ^t	d°... 200 Y ^{ds} wide—			Water 16 Feet 100 Y ^{ds} At 16 Min. end of Timber on

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N 2½ W Stream Min. a	At 3 Creek	30 Min. a on R ^t	2¼ nother	Island	close on	R ^t At 12 M	d ^o	Water 12 Feet Mid in. end of Island At 23
	N 23 E on L ^t this	Course goes to the shore	9	½	308	on R ^t	d ^o	Water 6 feet. Channel	
	N 43 W from R ^t		17	1¼	44		d ^o	Water 10 Feet 100 Y ^{ds}	
	S 68½ W R ^t Water 250 Y ^{ds}	er no bottom broad—	12	¾	264	near R ^t with 5 fathom—	d ^o At 7 Min.	At 2 Min. large Run on opposite abeech on L ^t	
	S 23 W Stream—	River	9¼ 450 Y ^{ds}	½ from beech to R ^t	341		d ^o	Water 20 Feet Mid	
	S 14½ W from Rocky shore		15¼ 450 Y ^{ds}	1¼ on R ^t	255		d ^o	Water 10 Feet 60 Y ^{ds}	
	S 34½ W from R ^t large Run on	River 450 Y ^{ds} At 18 Min.	30	2½	430	flat Gravelly Island	d ^o	Water 24 Feet 100 Y ^{ds} begins on R ^t , at 28 Min.	
	S 15½ W Gravelly Island on	R ^t At 3 Min. end of Island—	10	¾	290		d ^o	Water 3 Feet close by	
	S 22½ E from R ^t At end of this	Course Encamped on R ^t at 29 th Encampment	10	¾	290		d ^o	Water 14 Feet 150 Y ^{ds}	
	Wednesday the 30 th	July Embarked one				Min. after 6 oClock			
	S 22½ E		4½	¼	284		d ^o		
	S 54 E from R ^t At 20	Min. River	43¼	3¼	243		d ^o	Water 8 Feet 100 Y ^{ds}	
	S 14 E from L ^t all this	Course beech on R ^t 25 Y ^{ds} broad—	19	1¾	264		d ^o	Water 16 Feet 150 Y ^{ds}	
	S 32½ W from L ^t River	650 Y ^{ds} —	51¾	4½	411		d ^o	Water 16 Feet 100 Y ^{ds}	



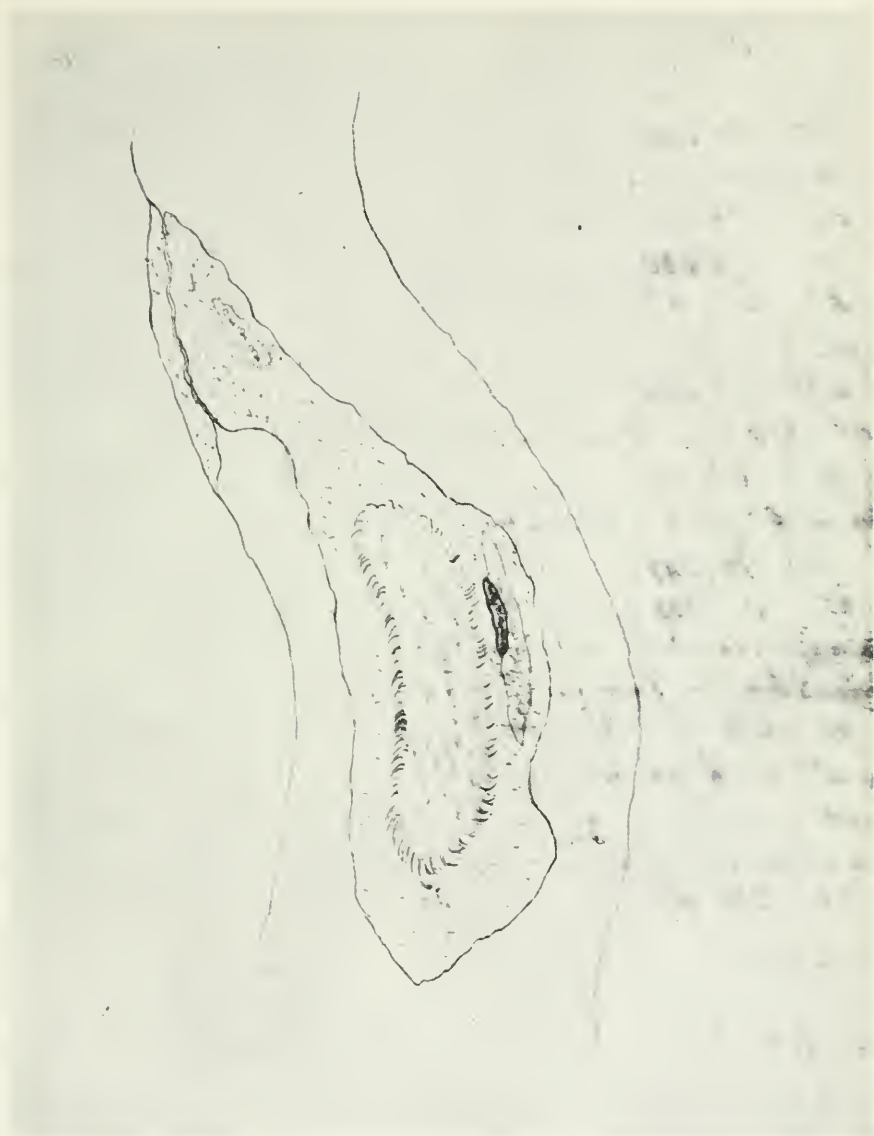
8. Hutchins, Pencil Sketch, to illustrate channel, Courses " $S84\frac{1}{2}W$ " to " $S56W$ "

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	S74½W Stream—At low banks. At	7	36 Min. 20	an Island lower end of	3¼ 76	.....	d°.....	.....	Water 10 Feet Mid Island is Timbered, but has
	N63W from L ^t a wide		20½	1¾ beech on R ^t this	220	.....	d°.....	.....	Water 6 Feet 200 Y ^{ds}
	N10½W from L ^t a wide		18½	1½ beech on R ^t all the	338	.....	d°.....	.....	Water 10 Feet 200 Y ^{ds}
	N14E from L ^t		50¼	2¾	285	At 3½	Miles	an Hour	Water 16 Feet 200 Y ^{ds}
	N29W Stream—Channel on L ^t all the Course		19	1¼ on R ^t —from R ^t to L ^t shore	308	.....	d°.....	.....	Water 6 Feet Mid 750 Y ^{ds} —large beech on
	S81½W Fath ^m 200 Y ^{ds} from R ^t At		15¾	1¼ R ^t At 8 Min.	335	.....	d°.....	.....	Water no bottom with 5 on L ^t this Course
	S66W from R ^t along Hill close on R ^t with a Number of Flat—At end of this Course Latitude is 37°43'		14	1	88	.....	d°.....	.....	Water 22 Feet 150 Y ^{ds} Lime stones along shore
	S74½W Y ^{ds} from R ^t		7	½	347	.....	d°.....	.....	Water no bottom 100
	S84½W from R ^t At 14 Min. a large Island in Middle of River—At 17 Min. to where the Timber and bank of Island begins—from Island to Shore on R ^t 300 Y ^{ds} —		35	3	355	.....	d°.....	.....	Water 22 Feet 100 Y ^{ds}
	S56W from R ^t the Island on L ^t has high banks and is well Timbered—at 24 Min. end of bank and Timber on Island At 32 Min. end of beech that goes out from lower end of Island—		35	3½	.....	d°	.....	.....	Water 12 Feet 100 Y ^{ds}
	N86W Stream—At 12 Min. River within 200 Y ^{ds} of the L ^t and the River to the R ^t		34	2½	88	.....	d°.....	.....	Water 16 Feet Mid beginning of a Gravelly flat almost aCross

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N52W from L ^t of River to L ^t	for 11—at 2	32 Min. a	2¼ long this end of	264 large	 little beech	 on R ^t	d ^o at 31	Water 8 Feet 100 Y ^{ds} flats & Shoals—in Middle Min. an Island close on
	N39W		13	¾	396	.....	.....	d ^o ...	Channel towards R ^t
	Encamped on this Island at the 30 th Encampment—								
	Thursday the 31 st July Embark'd 57 Min. after 9 oClock								
	N39W land to R ^t the but subject to begins on L ^t		26 Min. a	2¼ 200 Y ^{ds} wide—At 16 M	326 —with small end of Island—At	 d ^o.....	.....		River 800 Y ^{ds} —from Is- and pretty high banks at 19 Min. large beech
	S85W Stream—At 1	1 Min.	16	1¼ end of	376 beech	.....	d ^o		Water 16 Feet Mid
	S33½W from R ^t all the Island 3	At 40 Course, from 00 Y ^{ds} a	58 Min. a	4¼ a large Island towards R ^t	176 about the Middle of Island to R ^t 30 Y ^{ds} —Channel close on R ^t	.....	d ^o		Water 22 Feet 130 Y ^{ds} River—Strong Current a Shoal goes from the R ^t
	S17E from R ^t beech		14	1	88	.....	d ^o		Water 16 Feet 50 Y ^{ds} Min. end of beech—
	S38E from R ^t	At 20	52 Min. end of	4¼ end of Island	112	at 5 M	ile an	Hour	Water 16 Feet 80 Y ^{ds}
	S13E beech on L ^t the beech—a fine aCross—large		17½ at comes place to the River and begins	1¼ from end of Island to R ^t here	110..	.....	d ^o		Water 6 Feet close by a small Island with Timber on this beech runs quite from beginning of Course
	S27W from L ^t —beech on R ^t		17½	1¼	110	.....	d ^o		Water 18 Feet 100 Y ^{ds}
	S64½W from L ^t —beech on R ^t		30	2¼ at 26 Min.	 end of beech	.....	d ^o		Water 14 Feet 150 Y ^{ds} a large Run on R ^t —



9. Hutchins, Pencil Sketch, to illustrate channel, Courses "S33¹/₂W" to "S13E"

36. Indian runners reported that the warriors who had collected at the mouth of the Wabash had dispersed. Croghan sent a deputation, from the Indians who had accompanied him from Fort Pitt, overland to Kaskaskia to apprise the principal chiefs there of his mission. The remainder of the voyage down the Ohio, and up the Mississippi to Kaskaskia, was now made without fear of the Indians. Captain Gordon was especially impressed by the herds of buffalo which he described as, "Extraordinary large and frequent." Croghan to Gage, January 16, 1767. *Ill. Hist. Coll.* XI, 489; *Journal of Captain Harry Gordon*, 469; note 34, *ante*.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	Island on R ^t between Timber	17	1/2	1 1/2	12 Feet	150 Y ^{ds}	150 Y ^{ds}	150 Y ^{ds}	begins immediately below R ^t shore 100 Y ^{ds} —
	At 17		Encamped Sunday the 3 rd	at the 32 nd	of August	Encampment	Embar	ked 6	Min. after 7
	S51W R ^t 100 on R ^t 500 R ^t At 26	Y ^{ds} broad—	30 at 8 Min. to begin	2 1/4 Water (in—)	12 Feet At 21	150 Y ^{ds} very small	d ^o from L ^t (small Island	d ^o from L ^t (small Island	Channel on L ^t beech on River from L ^t to beech and on beech 50 Y ^{ds} from Water on R ^t
	S77W Stream		8 1/2	1/2	242		d ^o		Water 12 Feet Mid
	S54W from Island on River 1,000 Y ^{ds}		17 1/2	1 1/2	177	d ^o	At 10 Min. end of		Water 10 Feet 100 Y ^{ds} Island next the Right—
	S35W Min. small least flood—		18	1 1/4	176	300 Y ^{ds}	d ^o from L ^t which		Channel on L ^t —At 12 h over flows with the
	S26W from R ^t		42	3 3/4	162		d ^o		Water 8 Feet 50 Y ^{ds}
	S15 1/2 E from R ^t —near	1	9 1/2	6 1/4	209		d ^o		Water 14 Feet 200 Y ^{ds}
	S32E Stream—large		11 1/2	1	91		d ^o		Water 12 Feet Mid
	S20E from L ^t , from a large Creek on R ^t		15 1/2	1 1/4	295	450 Y ^{ds} wide ³⁷	d ^o		Water 16 Feet. 120 Y ^{ds} bottom Ridge on R ^t —
	S48E Y ^{ds} from small Run on bottom widens		43 1/2	3 3/4	403		d ^o		Water no bottom 200 Y ^{ds} on R ^t —At 15 Min. Rocky shore on R ^t At 30 Min. bottom on R ^t then

37. Saline River, a few miles below the spot where Shawneetown was settled later, to become the chief pioneer trading center for salt on the lower Ohio.

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	S27½E feet Mid Stre Occasion	13	1	333	.....	.d°...	.....		(Channel on L ^t Water 5 small R ^t beech on R ^t shore which way a Cross the River
	S35½E Perpendic Water—a R	13½	1	22	.....	.d°	.....		At 6 Min. a long high hole in it even with the —A Ridge ¼ Mile on L ^t —
	S17E from R ^t River Ridge at end of Free Stone	7	½	44	.....	.d°	.....		Water 8 Feet 200 Y ^{ds} Ridge on R ^t Ridge a little distance on L ^t — Rock near 100 Feet high
	Here	we	Encamped	on R ^t	at the	33 ^d	Encampment		
	Monday	the	4 th	August	Embarked	5 Min.	after	7.	
	S17E bottom Ridge beech on L ^t Ridge Just	44	4	44	.....	.d°...	.....		bottom widens on R ^t , At 7 Min. bottom widens on L ^t . At 16 Min. Rocky ¼ Mile on R ^t . At 20 Min. Ridge sets in on L ^t —bottom on R ^t widens— along the Course—At 20 Min. a Creek on L ^t 20 Y ^{ds} wide the below it—At 27 Min. flat Gravelly Island begins on R ^t —
	S55½W from Left [o]urse	9½	¾	209	.....	.d°...	.....		Water 20 Feet 120 Y ^{ds} At 4 Min. end of the Gravelly Island on R ^t Ridge on L ^t at end of
	S75½W from beech on end of Sandy Mile, At 13 Min. of L ^t At 30 Min. R ^t At 41 Min. an Isl ^d a little on R ^t —bank of Min. Cave in At 82 Min. —River	54	8½	88	.....	.d°	.....		Water 16 Feet 100 Y ^{ds} R ^t 300 Y ^{ds} wide—Ridge on L ^t —level land on R ^t —At 8½ Min. beech on R ^t which is 6 Feet higher than the Water, River half a bottom begins on L ^t At 23 Min. several large Rocks in bank beech on R ^t very large Run on L ^t At 33 Min. large Run on end of beech—Ridge ¼ Mile on R ^t —At 46 Min. beginning of the L ^t of Mid Stream—At 57 Min. Rocky Ridge and shore Island begins—At 70 Min. Cavern Rock begins on R ^t At 75 Rock—At 77 Min. end of Island low land with small Timber— large Cavern in Rock—50 Y ^{ds} long. 10 Wide 4 high at Entrance ³⁸ 560 Y ^{ds} —Rocky Ridge on R ^t
	S66W from R ^t River	25	1¾	220	.....	.d°...	.....		Water 10 Feet 300 Y ^{ds} 800 Y ^{ds} and continues the last Course 5 or 6 Miles further over

38, Cave-in-Rock was a stronghold for outlaw bands which held up and murdered many a luckless traveler on his way down the Ohio. Otto A. Rothert, *The Outlaws of Cave-in-Rock* (Cleveland, 1924).

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	a beech Course from this Course	going from R ^t and C ^t Continues as a	At 8 Min. above	At 8 Min. above	At 8 Min. above	beech begins on close to Island	on R ^t on L ^t		Rocky Ridge on R ^t this and of beech at end of
	S55W from L ^t Ridge on R ^t ending of Island and Logs—	At 9 Min. a 100 Y ^{ds} with the	11	$\frac{3}{4}$	132	.....	d ^o		Water 9 Feet 400 Y ^{ds} perpendicular Rock in the Top—at 11 Min. beginning of drifted old Trees
	S72W Island—River	17 $\frac{3}{4}$ Mile, Isl	17 $\frac{3}{4}$	1 $\frac{1}{2}$	217	.....	d ^o		Water 14 Feet on left of L ^t 50 Y ^{ds}
	S76 $\frac{1}{2}$ W Min. a Run on L ^t —	29 $\frac{1}{2}$	2	$\frac{1}{2}$	341	.....	d ^o		Water 6 Feet. At 8 $\frac{1}{4}$
	S72 $\frac{1}{4}$ W	11	1	$\frac{1}{4}$	11	.....	d ^o		Water 5 Feet
	N81 $\frac{1}{2}$ W	6	$\frac{1}{2}$	$\frac{1}{2}$	86	.....	d ^o		Water 8 Feet
	N63W	4	$\frac{1}{4}$	$\frac{1}{4}$	204	.....	d ^o		
	S87W	6	$\frac{1}{2}$	$\frac{1}{2}$	86	.....	d ^o		At 5 Min. end of Island—
	S45 $\frac{1}{2}$ W Course begins Rocky Ridge beginning of this Course	100 Y ^{ds} from R ^t all the	55 $\frac{1}{2}$	4	286	.....	d ^o		Channel on R ^t this At 7 Min. a Run on R ^t mentioned big Rock to
	West from R ^t a large beech ends	10	$\frac{3}{4}$	$\frac{3}{4}$	290	.....	d ^o		Water 14 Feet 300 Y ^{ds} beech begins on R ^t
	N61W Stream. shore—Ridge close on	At 18 Min. beech on R ^t about 400 Y ^{ds} long—	30	3 $\frac{1}{2}$	119	.....	d ^o		Water 3 feet Mid Rocky with large Rocks on bottom on left widens— a low flat bald Island
	S61 $\frac{1}{2}$ W from R ^t very strong	Current—Rocky Ridge close on R ^t beech on L ^t River 900	19	1 $\frac{1}{2}$	419	.....	d ^o		Water 10 Feet 100 Y ^{ds}



10. Hutchins, Pencil Sketch, to illustrate especially difficult channel, Courses "S40H" to "S10H"

COURSES OF THE OHIO RIVER, 1766

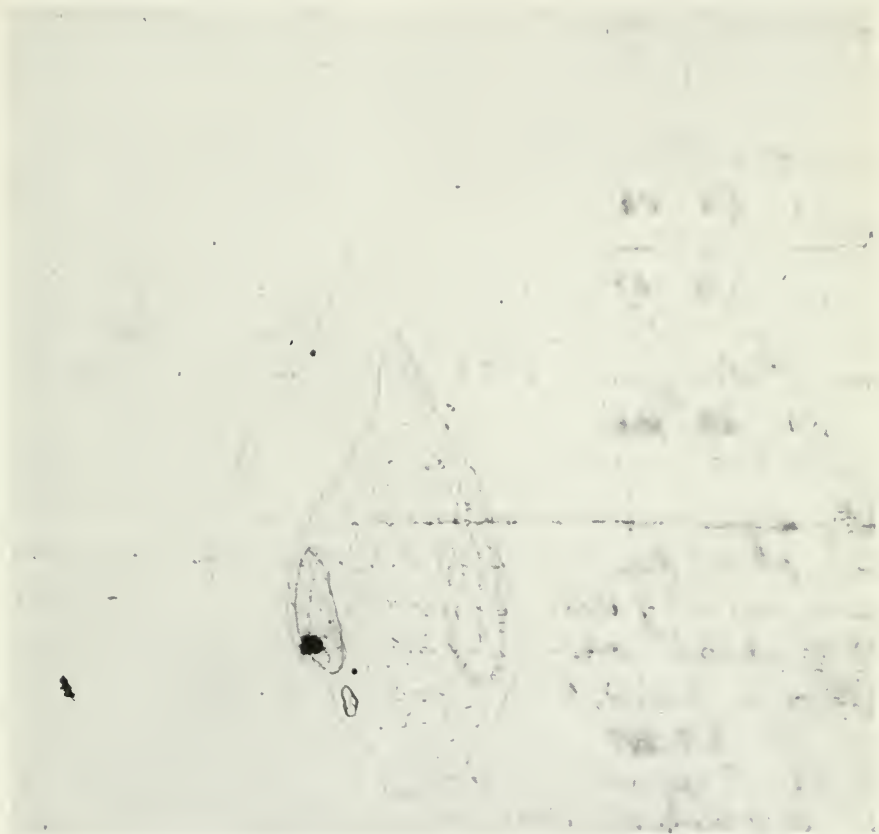
N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	Y ^{ds} —At 34 th Encampment	7 Min.	Ridge	e ¾ Mile	on L ^t beech end	s on L ^t	—Encamped on L ^t at the		
		Tuesday	the	5 th August	Embarked	one	Min.	after 5	
	S61½W R ^t Water on the Course		14	1¼	54	.....	d ^o	.....	At 4 Min. large Run on
		er no bottom		120 Y ^{ds}	from R ^t —Narrow			bottom	& Rocky Ridge on R ^t
	S40W from R ^t Middle Course		37	3¼	237	.....	d ^o	.....	Water 20 Feet 200 Y ^{ds}
		at 11 Min. beech on River—		from L ^t shore of	on L ^t that Joins an Island to R ^t 1200 Yards				At 31 Min. the Island in
									Ridge on R ^t the
	S10W from R ^t At 25 Min. beech from Min. a Ridge this Course, &		54	4¾	334	.....	d ^o	.....	Water 10 Feet 250 Y ^{ds}
		Channel is on the R ^t —At 11 Min. end of bank and Timber of Island—small bottom—here the							At 40 Min. Run on L ^t At 48
		very large Run on R ^t that Joins the shore on L ^t —beech on L ^t that Joins an Island. Ridge							
		end of Island Joins the shore on L ^t —beech on L ^t that Joins an Island. Ridge							
	S19W from R ^t on R ^t —bank & from end of last Island The Ridge about a Mile on Mid Stream with good encampment		51½	4½	371	.....	d ^o	.....	Water 10 Feet 300 Y ^{ds}
		Channel on R ^t Ridge all the Island a little to L ^t of Mid Stream. At 24 Min. an Island 100 Y ^{ds} from L ^t —							At 17 Min. end of
		at 10 Min. the Island a little to L ^t of Mid Stream. At 24 Min. an Island 100 Y ^{ds} from L ^t —							this and to another below it—
		last Island the beech runs down to this and to another below it—							36 Min. end of bank and Timber
		about a Mile on L ^t disappears—At 36 Min. end of bank and Timber							on Island close on L ^t River 1300 Y ^{ds} at 41 Min. a very Narrow Island in
		close on L ^t River 1300 Y ^{ds} at 41 Min. a very Narrow Island in							begins on R ^t —on this Island is
		with pretty high bank s—level land of Course end of Island—							
	S11½E from R ^t At 7 Min. beech surrounded by another flat Island and ends a little below it—		23	2	183	.....	d ^o	.....	Water 6 Feet 400 Y ^{ds}
		Ridge on R ^t ½ a Mile—At beginning of Cours a flat Grav-							which ends at 8 Min. a
		ounded with Water about Mid Stream which ends at 8 Min. a							the head of this is nearer the shore on R ^t
		flat Island begins a little below level land on R ^t and L ^t with some Cedar Trees—							
	S41½E Stream—Ridge Yards—Island		73	6½	313	.....	d ^o	.....	Water 18 Feet Mid
		River 700 Y ^{ds} At 13 Min. ½ mile on R ^t low Ridge							Min. beech of Island in Mid
		—Ridge ½ Mile on R ^t							from L ^t shore to R ^t 1600
		At half mile on R ^t							of bank and Timber of

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	S27E from L ^t rounded Island Mid Stream	a flat with—At 36 Min.	50 Gravelly Water	4½ —At end of bank	103 h a little & Timber	 le on R ^t of which beech on Isl ^d	.d ^o.....	.....	Water 10 Feet 500 Y ^{ds} am for 20 Min. sur-on R ^t shore and Joins an Situate a little on R ^t of
	S5½W from L ^t Situate At 13 950 Y ^{ds} Runs from L ^t called Sh towards	beech on L ^t begins end of bank & large Isl ^d on L ^t this Shaunoe River East ³⁹	46 on L ^t and begins—Island on bank & large beech on L ^t this River	3¾ —Island on Timber large beech River	352 Joins an Island at R ^t ends the beech on Isl ^d on L ^t At 25 Min. Run on R ^t —River begins on R ^t —At 37 Min. end of beech that Joins L ^t shore—at 39 Min. a very large River Course of this River up is	d ^o.....	.....	.....	Water 12 Feet 300 Y ^{ds} bank and Timber on Island of which Joins shore on R ^t At 25 Min. Run on R ^t —River begins on R ^t —At 37 Min. end of beech that Joins L ^t shore—at 39 Min. a very large River Course of this River up is N35E ¾ Mile, then turns
	S35½W from L ^t L ^t of the Min. end of beech on	At 7 Min. end of beech on	46 end of large beech on R ^t	4 end of Island a little R ^t	366 very close above the Mouth—	d ^o.....	.....	.....	Water 10 Feet 300 Y ^{ds} head of which begins on L ^t the Mouth—, River 1400 Y ^{ds} at 21
	S56W from R ^t	At 20 Min. beech on R ^t	30 beech on R ^t	2¼ beech on R ^t	.....	..... .d ^o.....	.....	.....	Water 10 Feet 400 Y ^{ds}
	N81½W Stream Min. beech on	Channel near R ^t At	33 L ^t at end of	2¼ L ^t at end of this	396 At 7 Min. end of beech on R ^t	d ^o.....	.....	.....	Water 9 Feet Mid River 1200 Y ^{ds} at 12 600 Y ^{ds} broad—
	N59W from Shore on Cherokee River Timber Cherokee River Mile up the mouth	Shore on L ^t At 8 Min. runs out of L ^t At 49 Min. comes in at mouth appears to	64 L ^t At 8 Min. runs out of L ^t At 49 Min. comes in at mouth appears to	4¾ S77W At 27 Min. end of beech on L ^t This River is 350 Y ^{ds} p. the bank on L ^t of be ab out 25 Feet or 30 high— ⁴⁰	88 beech—At 14 Min. end of beech at which is a Stream 20 the Ohio—At 42 Min. end of beech which goes from Island here wide and bears South ½	d ^o.....	.....	.....	Water 11 Feet 400 Y ^{ds} abeech on L ^t aCross to at which is a Stream 20 the Ohio—At 42 Min. end of beech which goes from Island here wide and bears South ½
	N10W Stream the 35 th campment	this Course Encampment	17 Cross the River—large beaver	.....	.....	.....	.....	.....	Water 26 Feet Mid ht. here we encamped at 100 Y ^{ds} from this En-
	Wednesday	the 6 th	August	Embarked	48½	Min. after 5			

39. The Cumberland River, called at first the "Shawnee."

40. The Tennessee River, called at first the "Cherokee."



11. Hutchins, Pencil Sketch, *Mouth of Cherokee (Tennessee) River*

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Minutes	Miles	Yards	Swift	Mid-dling	Slow	
	N67½W from L ^t Min. a Stream—The in which	1	48	9¾	248	.....	d. ^o....	.....	Water 20 Feet 300 Y ^{ds} from R ^t At 26 Min. Run on R ^t At 30 Min. Water 7 Feet Mid Stream—At end of this river in Latitude 37°0'.30'' ⁴¹ Situate on a high bank a Number of small springs
	S83½W from R ^t At 10	1	22	1½	264	.....	d. ^o....	.....	Water 22 Feet 60 Y ^{ds}
	N64W At 69 Min. a Mid Stream—	1	19	5¾	308	.....	d. ^o....	.....	No bottom Mid Stream, a little to the R ^t of
	N64W from R ^t a flat of Rocks at edge of lower end of Course	1	58¾	8¾	275	.....	d. ^o....	.....	Water 14 Feet 300 Y ^{ds} a flat Gravelly beech in Mid Stream—At 9 Min. a Number of Iron Ore in Mid Stream the Run on L ^t —At end of
	Thursday the 7 th embarked					57	Min.	after 4—	
	S78½W At 13 Min. Lime Stone Rocks on R ^t shore at edge of Water	1	3	4½	396	.....	d. ^o....	.....	a 100 Y ^{ds} from R ^t —At 42 Min. Lime Stone
	S45½W Stream—At 15 Min. R ^t they appear to be feet above the L ^t ends—	1	29	8	269	.....	d. ^o....	.....	Water 8 Feet Mid in the River 100 Y ^{ds} from R ^t At 32 Min. three large lime Stone Rocks two on L ^t At 75 Min. beech
	S23W Y ^{ds} from L ^t River the Course—	1	17	5¾	44	.....	d. ^o....	.....	Water no bottom. 300 low land on R ^t and L ^t all
	S57½W Stream this Course		23	¾	359	At 2½	Miles	an Hour—	Water 12 Feet Mid 150 Y ^{ds} of shore on R ^t

41. Fort Massiac, founded by the French in 1757, was named after a French minister, but was commonly known as Fort Massac or Fort Massacre. Its strategic location on the lower Ohio, made it an important post and also a trade center. C. W. Alvord, *The Illinois Country, 1763-1818, Centennial History of Illinois*, vol I (Springfield, 1920).

COURSES OF THE OHIO RIVER, 1766

N ^o of Courses	Courses	Time		Distance		Water			Remarks
		Hours	Min-utes	Miles	Yards	Swift	Mid-dling	Slow	
	S42½W Y ^{ds} from R ^t and an Island on L ^t At 4 Min. beginning of a flat Gravelly beech in Cove e surrounded with Water		14	½	142	At 2½	Miles	an Hour.	Water 18 Feet 200 Cove on R ^t At 9 Min. —Run on R ^t
	S37½W Min. end of beech and Cove—the Island ends at R ^t At 50 Min.		64	2½	176	At 1½	Mile	an hour.	Channel on L ^t At 16 Min. At 24 Min. Run on R ^t At 37 Min.
	S15E		40	3	.....	.....	.....	d°....	
	S45E River to Junction with the Mississippi,		36	2½	352	.....	.....	d°	down Middle of Ohio no bottom with 5 Fathom—
	Encamped at the Junction Saturday and Sunday— This Fork of the Mississippi and the Mississippi 1030 Y ^{ds} —					at the 37 th	Encampment		—Halted here Fryday, Ohio River is 1060 Y ^{ds} wide

Map of the Ohio River, 1766,

by

Captain Harry Gordon,

Map Division, Library of Congress.

River of Ohio

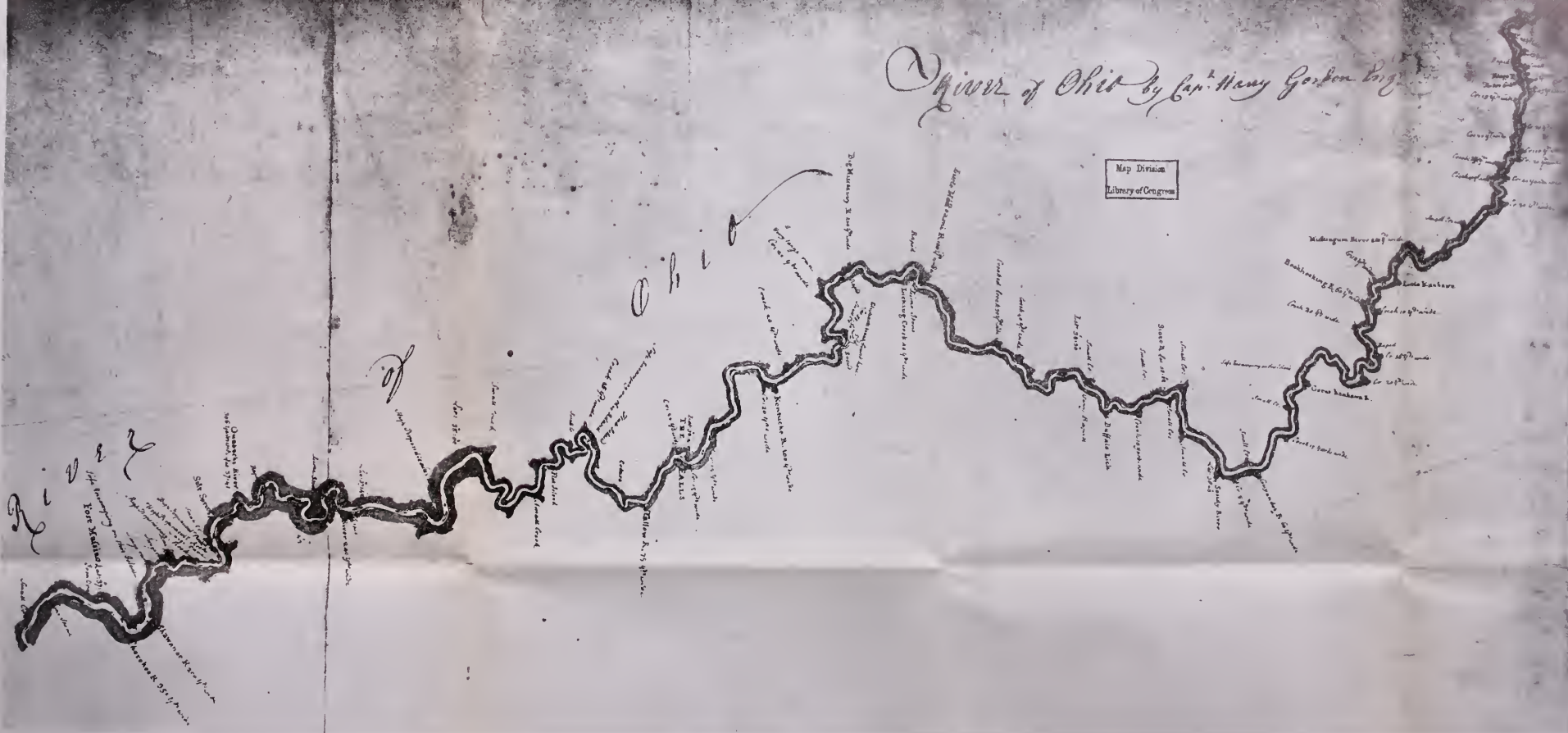
Little 27th ca

marked in

M
Libr

Ohio by Genl Henry Gordon Esq

Map Division
Library of Congress



DISTANCES FROM FORT PITT TO THE MOUTH OF THE OHIO

Distances from Fort Pitt in Latitude $40^{\circ} 26'$ to the Mouth of the Ohio, in Latitude $36^{\circ} 43'$, taken by CAPTAIN HARRY GORDON, Chief Engineer in America, on his Passage down the River Ohio, undertaken by Order in 1766; together with the Latitude of some of the most remarkable Places which he took at the same Time, viz.:

(Thomas Pownall, *A Topographical Description . . . of the Middle British Colonies, &c.* (London, 1776). Appendix, 5; also reprinted in Mereness, *Travels in the American Colonies*, 488-489.)

	Latitude.	Miles.	Miles.
Logg's Town.....			$18\frac{1}{2}$
Big Beaver Creek.....		$10\frac{3}{4}$	$29\frac{1}{4}$
Little Beaver Creek.....		$12\frac{3}{4}$	42
Yellow Creek.....		$10\frac{1}{2}$	52
Mingo Town.....		$19\frac{3}{4}$	$71\frac{1}{2}$
Two Creeks.....			$72\frac{1}{4}$
Long Reach.....		51	$123\frac{1}{4}$
End of Long Reach.....		$14\frac{3}{4}$	138
Muskingum Run.....	$39^{\circ} 16'$	23	161
Little Kanhawa River.....		$12\frac{3}{4}$	$172\frac{3}{4}$
Hockhocking River.....		$13\frac{1}{4}$	126
Big Kanhawa River.....		$80\frac{1}{4}$	$266\frac{1}{4}$
Big Guyandot.....		$41\frac{3}{4}$	308
Big Sandy Creek.....		13	321
Scioto River.....	$38^{\circ} 22'$	45	366
Big Buffalo Lick, one mile eastward of the Ohio.....		24	390
Large Island, divided by a gravelly beach.....		$20\frac{1}{2}$	$410\frac{1}{2}$
Little Mineami River.....		$81\frac{3}{4}$	$492\frac{1}{4}$
Licking Creek.....		8	$500\frac{1}{4}$
Great Mineami River.....		$26\frac{3}{4}$	$527\frac{1}{2}$
The place where the elephant's bones were found.....		$32\frac{3}{4}$	$560\frac{1}{4}$
Kentucké River.....		$44\frac{1}{4}$	$604\frac{1}{2}$
The Falls.....	$38^{\circ} 8'$	$77\frac{1}{2}$	682
Where the Low Country begins.....		$155\frac{3}{4}$	$837\frac{3}{4}$
Beginning of the Five Islands.....		$37\frac{3}{4}$	$875\frac{1}{4}$
Large river on the east side.....		27	$902\frac{1}{4}$
Very large island in the middle of the river.....		58	$690\frac{1}{4}$
Wabash River.....		$38\frac{3}{4}$	$999\frac{1}{2}$
Big rock and cave on the west side.....		$42\frac{3}{4}$	$1042\frac{1}{4}$
Shawana River.....		$52\frac{1}{2}$	$1094\frac{3}{4}$
Cherokee River.....		13	$1107\frac{3}{4}$
Fort Massiac.....		11	$1118\frac{3}{4}$
The mouth of the Ohio River.....	$36^{\circ} 43'$	46	1164

*Map of a Tour from Fort Cumberland
North Westward round part of the Lakes
Erie, Huron and Michigan, including
part of the Rivers St. Joseph, The Wabash
and Miamis, with a Sketch of the Road
from thence by the Lower Shawnee Town
to Fort Pitt, 1762,*

by

Thomas Hutchins.

Huntington Library Mss. H M 642.

INDIAN WARRIOR

18

EXPLANATIONS AND TABLE FROM HUTCHINS' MAP, 1762

Explanations and Table on Map of a Tour from Fort Cumberland North Westward, etc., 1762, Thomas Hutchins, Huntington Library Mss. H M 1091.

REMARKS.

About a Dozen French families Compose the Settlement of Michilimakinak, about which the Land is so Exstreamly barren and Sandy that the Inhabitants are obliged to bring Earth for their Gardens some Miles, and depend intirely on the Indians for the Meat they use; The Streight they are Situate on yields them Fish in abundance Particularly Trout of which they seldom Catch any less than two feet long and often upwards of three feet.

The Land on the shore of Lake Huron to Michilimakinack is very poor and mixed with sand and small stones so that it produces Scarcely any thing more than Pines, Birch and Oaks; The Water in many places along the shore is so shallow and full of Rocks that in a brisk Gale of Wind blowing on Shore, the Traders are obliged to keep a great way out in the Lake for fear of bashing their Canoes to pieces.

The Land at some little distance from the Shore of Lake Erie is very good and level all the way to Lake St. Clair.

From Fort Pitt to big Beaver Creek the Country is made up chiefly of broken Land, except in some few places where the Road touches near the River: To little Beaver Creek the Land is much the same and Timbered with Chesnut and small Oak: To the Beavers Town the Path Leads still over broken and poor ground for a great way, but as you approach nearer to it, it appears Richer and freer of Hills: To Sandusky you pass through very Extensive level Savanna's and a Rich Country well Watered & Timbered: From the Miamis Fort to the Lower Shawanoe Town the Country is entirely level, very Rich, plenty of Water and fine Timber, and in many places the Path takes through large Savanna's: To Licking Creek the Land is level and very Rich except in some places where the Path takes over small stony Ridges: To Waukatamikee the Road Crosses a Number of Steep Ridges: To the Delaware Town on Muskingum the Land is good and pretty level, you then Cross several little Hills of indifferent Land badly Timbered and in some places Stony, the Path also leads through small Savanna's: The Country in General from the Delaware Town to the

partings of the Road near yellow Creek is poor; except in places where the Creeks run through, and there the Land is Rich & well Timber'd

[Explanations in the lower left corner of the map.]

The Wabash is Navigable for Canoes in the time of a Fresh to within nine miles of the Miami Fort, but at any other time not within forty Miles of it: The Bottom of the Channel mostly Stony, and the Stream through a fine firtle Country very Gentle, but where you meat with Shoals: The french Traders haul their Canoes over a level Portage of nine Miles to the Miami River which they go down with a Rapid Current into Lake Erie: The Settlement of Ouaitanon Consists of about fifteen french families Situate in a pleasant firtile Country which would produce all kinds of Grain Natural to the Climate were the Inhabitants to turn their minds to Cultivate the Lands which they seem Intirely to neglect, except some small Gardens and raising Indian Corn which they chiefly make their Bread of: Their whole Genius seems to be turned to the Indian Trade which they carry on very largely with the Natives: This Country abounds with very Extensive Natural Meadows which makes it very fitt for raising Stock. The River Wabauche Runs through it and affords a Navigation to all the Towns on the Mississipi as far as the Gulf of Mexico:

The Land between St. Josephs and the Miamis Fort is level and Rich and the Road Crosses a Number of Delightful Savanna's but has been Carried a good way round between the Miamis Fort and the Small Town, by reason of a Number of little Lakes and drowned Lands of both which there is often to be found in this Country:

Fort St. Josephs Stands within a few Yards of Navigable Water Commanded by two very high banks one on each side of the River, and from its situation appears to have been intended more as a place for Traders to put their Effects in, than a Work of Defence to keep the Natives at a Proper distance; it is inhabited by about a Dozen French families, who chiefly support themselves by the Trade they carry on with the Indians, and Notwithstanding the Country is very Rich about them, they raise nothing more than some Indian Corn and make a little Hay to support their Horses and Mules, and a few Milch Cows which seems to be all the Stock they have.

[Explanations on map (proper) just below Saguinam Bay]

From Michilimakinak along the East side of Lake Michigan to St. Josephs River the Land is made up of Sandy barren Ridges Scarcely Producing anything but Pines, Oaks and Cedars, the Rivers that empty themselves into the Lake are Many of them Navigable a Considerable way up for Canoes, and some distance from the Lake the Country is very good and affords great Plenty of Buffaloes, Deer, Bears, Bevers and Turkeys &c. &c.

Number of Indian Warriors:

At Tuscarawas	Delawares	80
At and near Sandusky	Wyandotts & Mohickons	200
At and near D'Troit	Ottawas	200
	Cheapwas	200
	Poutewatamis	150
	Wyandotts	200
At Saguinam Bay	Ottawas and Cheapwas	200
At and near Michilimackinak	Ottawas	250
	Cheapwas	400
At Puans Bay	Menomines	110
Some distance to the		
Westward of the Bay	Puans	360
	Sax or Sawkes	300
	Reynards	320
	Poutewatamis	200
At and near the Miamis	Twightwees	230
At Ouiatanon	Wauweoughtanoes	200
	Kikopoes	180
	Muskittons	90
	Pyankashaws	100
At and near the Lower Town	Shawanoes	300
At Waukatamikee	Shawanoes	100
At a Town on Muskingum	Delawares	70

Itinerary of A Tour from Fort Cumberland North Westward round part of the Lakes Erie, Huron and Michigan, including part of the Rivers St. Joseph, the Wabash and Miamis, with a Sketch of the Road from thence by the Lower Shawnee Town to Fort Pitt, 1762, by Thomas Hutchins, from Jenks, The "Hutchins" Map of Michigan, Mich. Hist. Mag., X, 365-373.

April 4, 1762, left Fort Pitt (Pittsburgh).

April 4-7, at Beaver Creek.

April 7-19, across country to Mohickon Johns.

April 19-21, on way to Sandusky.

April 21-30, at Sandusky.

April 30-May 8, by water to Detroit.

May 8-15, at Detroit.

May 15-June 2, by water from Detroit to Michilimackinac (Mackinaw).

June 2-7, at Michilimackinac.

June 7-24, on way Michilimackinac to "the Bay" (Green Bay).

June 24-28, at "the Bay."

June 28-July 7, on return passage from "the Bay" to Michilimackinac.

July 7-11, at Michilimackinac.

July 11-August 6, by water Michilimackinac to St. Josephs.

August 6-9, at St. Josephs.

August 9-12, across country to the "Fort at the Miamie" (Fort Wayne).

August 12-14, at Fort Miami.

August 14-18, on way to Ouiatanon (Ouiatenon).

August 18-22, at Ouiatanon.

August 22-26, on way to Fort Miami.

August 26-30, at Fort Miami.

August 30-September 8, across country to the Lower Shawnee Town (Portsmouth, O.)

September 8-September 13, at the Lower Shawnee Town.

September 13-24, 1762, across country to Fort Pitt.

UNIVERSITY OF ILLINOIS-URBANA
656H97C C802
THE COURSES OF THE OHIO RIVER CINCINNATI



3 0112 025317030